

STIC-Biotech/ChemLib

178681

CRFB

From: Swope, Sheridan  
Sent: Monday, February 06, 2006 12:37 PM  
To: STIC-Biotech/ChemLib  
Subject: 10/018,964

For 10/018,964, please interference search:

SID 1 against the NT and AA data bases.

Wherein the sequence is: Tyr-Ser-Gly-Pro-Pro-Ser-Gly-Ala-Arg-Arg-Arg-Asn-  
Cys-Tyr-Glu

Sheridan Swope, Ph.D.  
Patent Examiner, AU 1656  
Recombinant Enzymes  
571-272-0943 (voice)  
E02B71 Remsen Bld (Office)  
E03C70 Remsen Bld (Mailbox)

No Art

RECEIVED  
FEB - 6 2006  
STIC

1-15 aa  
LB

02/15/06  
JH

\*\*\*\*\*  
Searcher: \_\_\_\_\_  
Searcher Phone: \_\_\_\_\_  
Date Searcher Picked up: \_\_\_\_\_  
Date completed: \_\_\_\_\_  
Searcher Prep Time: \_\_\_\_\_  
Online Time: \_\_\_\_\_

\*\*\*\*\*  
Type of Search  
NA# \_\_\_\_\_ AA# \_\_\_\_\_  
S/L: \_\_\_\_\_ Oligomer: \_\_\_\_\_  
Encode/Transl: \_\_\_\_\_  
Structure #: \_\_\_\_\_ Text: \_\_\_\_\_  
Inventor: \_\_\_\_\_ Litigation: \_\_\_\_\_

\*\*\*\*\*  
Vendors and cost where applicable  
STN: \_\_\_\_\_  
DIALOG: \_\_\_\_\_  
QUESTEL/ORBIT: \_\_\_\_\_  
LEXIS/NEXIS: \_\_\_\_\_  
SEQUENCE SYSTEM: \_\_\_\_\_  
WWW/Internet: \_\_\_\_\_  
Other (Specify): \_\_\_\_\_

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# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 178681

**TO: Sheridan Swope**  
**Art Unit: 1656**  
**Location: REM/2B71/3C70**  
**Serial Number: 10/018964**

**Friday, February 17, 2006**

**From: Beverly Shears**  
**Location: Biotech-Chem Library**  
**REM 1A54**  
**Phone: 571-272-2528**  
**beverly.shears@uspto.gov**

### Search Notes

#### Protein Sequence Searches – February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension **.rup**) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (uniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.

#### Published Applications Database - November 2005

Published\_Applications Nucleic Acid and Published\_Applications Amino Acid database searches now generate two sets of results each. The Published\_Applications databases have been split into two parts to reduce the amount of time required for their daily updates. This results in more machine time being available for processing searches.

Newly published applications will appear in the Published\_Applications\_New databases; older published applications make up the Published\_Applications\_Main databases.

Searches run against Nucleic Acid Published\_Applications produce two sets of results, with the extensions **.rnpbm** (Published\_Applications\_NA\_Main) and **.rnpbn** (Published\_Applications\_NA\_New).

Searches run against Amino Acid Published\_Applications produce two sets of results, with the extensions **.rapbm** (Published\_Applications\_AA\_Main) and **.rapbn** (Published\_Applications\_AA\_New).



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GenCore version 5.1.7  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 13, 2006, 17:47:10 ; Search time 410 Seconds  
(without alignments)  
32.896 Million cell updates/sec

Title: SWOP-018-SEQ1

Perfect score: 87  
Sequence: 1 ysgpgsarrncye 15

Scoring table:  
BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 6240305 seqs, 449581930 residues

Total number of hits satisfying chosen parameters: 12480610

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DRV=xlp  
-O=/abes/ABSSWEB.spool/SWOP018964/runat 10022006 143759 580/app query.fasta\_1  
-DB=Published Applications NA.New -QFMT=Fastap -SUFFIX=rnpbn -MINMATCH=0.1  
-LOOPCL=0 -LOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOCLIGN=200 -THR\_SCORE=pct -THR\_MAX=100  
-THR\_MIN=0 -ALIGN=40 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -HOST=abss806p  
-USER=SWOP018964 @CGN 1 1 335 @runat 10022006 143759 580 -NCPU=6 -ICPU=3  
-NO MAP -NEG SCORES=0 -WAIT -DSPELOCK=100 -LONGLOG -DEV TIMEOUT=120  
-WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA.New:

- 1: /cgn2\_6/prodata/2/pubpna/US08\_NEW\_PUB.seq\*
- 2: /cgn2\_6/prodata/2/pubpna/US06\_NEW\_PUB.seq\*
- 3: /cgn2\_6/prodata/2/pubpna/US07\_NEW\_PUB.seq\*
- 4: /cgn2\_6/prodata/2/pubpna/PCT\_NEW\_PUB.seq\*
- 5: /cgn2\_6/prodata/2/pubpna/US09\_NEW\_PUB.seq\*
- 6: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq\*
- 7: /cgn2\_6/prodata/2/pubpna/US10\_NEW\_PUB.seq1\*
- 8: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq\*
- 9: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq2\*
- 10: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq3\*
- 11: /cgn2\_6/prodata/2/pubpna/US11\_NEW\_PUB.seq4\*
- 12: /cgn2\_6/prodata/2/pubpna/US60\_NEW\_PUB.seq\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	63	72.4	6490	11	US-11-136-527-2002
2	50	57.5	693	7	US-10-750-185-52252
3	50	57.5	693	7	US-10-750-623-52252
C 4	47.5	54.6	3278	7	US-10-750-185-41892
C 5	47.5	54.6	3278	7	US-10-750-623-41892

6	47	54.0	954	11	US-11-169-041-47	Sequence 47, Appl
7	47	54.0	1400	11	US-11-136-527-7875	Sequence 7875, Ap
8	47	54.0	1663	11	US-11-136-527-3779	Sequence 3779, Ap
C 9	47	54.0	2530	11	US-11-000-888-1399	Sequence 1399, Ap
10	47	54.0	13156	11	US-11-124-367A-5033	Sequence 5033, Ap
C 11	46	52.9	1068	6	US-10-838-616-31	Sequence 31, Appl
C 12	46	52.9	1291	6	US-10-838-616-29	Sequence 29, Appl
C 13	46	52.9	1778	7	US-10-750-185-56845	Sequence 56845, A
C 14	46	52.9	1778	7	US-10-750-623-56845	Sequence 56845, A
15	46	52.9	2957	7	US-10-750-185-50234	Sequence 50234, A
16	46	52.9	2957	7	US-10-750-623-50234	Sequence 50234, A
C 17	46	52.9	3490	11	US-11-122-329-110	Sequence 110, App
C 18	46	52.9	6903	11	US-11-136-527-3727	Sequence 3727, Ap
C 19	46	52.9	7853	11	US-11-136-527-1990	Sequence 1990, Ap
C 20	46	52.9	8275	11	US-11-136-527-1981	Sequence 1981, Ap
21	46	52.9	88873	7	US-10-995-561-13383	Sequence 13383, A
C 22	45	51.7	1067	6	US-10-838-616-19	Sequence 19, Appl
23	45	51.7	1817	6	US-10-828-585-15	Sequence 15, Appl
24	45	51.7	1817	11	US-11-178-134-5	Sequence 5, Appl
25	45	51.7	1920	11	US-11-120-351A-1	Sequence 1, Appl
C 26	45	51.7	126552	11	US-11-121-086-1	Sequence 1, Appl
27	45	51.7	163162	11	US-11-121-086-66	Sequence 66, Appl
28	45	51.7	191884	11	US-11-121-086-2	Sequence 2, Appl
C 29	44	50.6	201	7	US-10-995-561-63977	Sequence 63977, A
C 30	44	50.6	201	11	US-11-124-367A-1731	Sequence 1731, Ap
C 31	44	50.6	201	11	US-11-124-367A-1741	Sequence 1741, Ap
C 32	44	50.6	201	11	US-11-124-367A-1750	Sequence 1750, Ap
33	44	50.6	732	7	US-10-467-657-2637	Sequence 2637, Ap
34	44	50.6	1251	11	US-11-055-822-151	Sequence 151, App
C 35	44	50.6	1748	11	US-11-124-367A-101	Sequence 101, App
C 36	44	50.6	1798	11	US-11-124-367A-100	Sequence 100, App
C 37	44	50.6	2595	11	US-11-124-367A-99	Sequence 99, Appl
C 38	44	50.6	5093	11	US-11-136-527-2431	Sequence 2431, Ap
39	44	50.6	6384	11	US-11-136-527-2395	Sequence 2395, Ap
40	44	50.6	70513	7	US-10-995-561-13368	Sequence 13368, A
C 41	44	50.6	76427	11	US-11-124-367A-5041	Sequence 5041, Ap
42	44	50.6	175673	11	US-11-121-086-55	Sequence 55, Appl
C 43	43	49.4	201	7	US-10-995-561-5798	Sequence 5798, Ap
C 44	43	49.4	201	7	US-10-995-561-5820	Sequence 5820, Ap
C 45	43	49.4	201	7	US-10-995-561-5861	Sequence 5861, Ap

ALIGNMENTS

RESULT 1  
US-11-136-527-2002  
; Sequence 2002, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 2002  
; LENGTH: 6490  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-11-136-527-2002

Alignment Scores:  
Pred. No.: 69.4  
Score: 63.00  
Percent Similarity: 86.7%  
Best Local Similarity: 73.3%  
Query Match: 72.4%  
DB: 11  
Length: 6490  
Matches: 11  
Conservative: 2  
Mismatch: 2  
Indels: 0  
Gaps: 0





```
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial sequences:primer
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(2530)
; OTHER INFORMATION: homeo box al(HOXa1) gene.
US-11-000-688-1399

Alignment Scores:
Pred. No.:      6.05e+03      Length:      2530
Score:          47.00        Matches:      10
Percent Similarity: 64.7%    Conservative: 1
Best Local Similarity: 58.8% Mismatches: 2
Query Match:     54.0%      Indels:      4
DB:              11         Gaps:       1

SWOP-018-SEQ1 (1-15) x US-11-000-688-1399 (1-2530)

Qy      2 SerGlyProPro-----SerGlyAlaArgArgArgAsnCysTyr 14
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      244 TGTGCACCCCTGCTGCCACTAGGAGCGGTGCTGCGCGCGCAACTGTTGG 194

RESULT 10
US-11-124-367A-5033
; Sequence 5033, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michelle Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5033
; LENGTH: 13156
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-5033

Alignment Scores:
Pred. No.:      3.58e+04      Length:      13156
Score:          47.00        Matches:      10
Percent Similarity: 66.7%    Conservative: 2
Best Local Similarity: 55.6% Mismatches: 2
Query Match:     54.0%      Indels:      4
DB:              11         Gaps:       1

SWOP-018-SEQ1 (1-15) x US-11-124-367A-5033 (1-13156)

Qy      1 TyrSerGlyProProSerGly-----AlaArgArgArgAsnCysTyr 14
||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      2030 TGGGACGAGCGCGCCCTCAGGCTATATAGCGCACTCCGCGCGGTGGTGTAT 2083

RESULT 11
US-10-838-616-31/c
; Sequence 31, Application US/10838616
; Publication No. US2006008874A1
; GENERAL INFORMATION:
; APPLICANT: Mendel Biotechnology, Inc.
; APPLICANT: CREELMAN, Robert A
; APPLICANT: RATCLIFFE, Oliver
; APPLICANT: KUMIMOTO, Roderick W
; APPLICANT: GUTTERSON, Neal I
; APPLICANT: REUBER, T. Lynne
; APPLICANT: LIBBY, Jeffrey M
; TITLE OF INVENTION: Plant Transcriptional Regulators of Abiotic Stress
; FILE REFERENCE: MBI-0069CIP
; CURRENT APPLICATION NUMBER: US/10/838,616
; CURRENT FILING DATE: 2004-05-04
; PRIOR APPLICATION NUMBER: Stress-Related Polypeptides in Plants
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: 10/685,922
; PRIOR FILING DATE: 2003-10-14
; PRIOR APPLICATION NUMBER: 09/810,836
; PRIOR FILING DATE: 2001-03-16
```

```
; APPLICANT: REUBER, T. Lynne
; APPLICANT: LIBBY, Jeffrey M
; TITLE OF INVENTION: Plant Transcriptional Regulators of Abiotic Stress
; FILE REFERENCE: MBI-0069CIP
; CURRENT APPLICATION NUMBER: US/10/838,616
; CURRENT FILING DATE: 2004-05-04
; PRIOR APPLICATION NUMBER: Stress-Related Polypeptides in Plants
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: 10/685,922
; PRIOR FILING DATE: 2003-10-14
; PRIOR APPLICATION NUMBER: 09/810,836
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: 10/412,699
; PRIOR FILING DATE: 2003-04-10
; PRIOR APPLICATION NUMBER: 10/171,468
; PRIOR FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: 09/532,591
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/533,029
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 09/533,392
; PRIOR FILING DATE: 2000-03-22
; PRIOR APPLICATION NUMBER: 60/125,814
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/713,994
; PRIOR FILING DATE: 2000-11-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 31
; LENGTH: 1068
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: G3389 AP002913 Predicted polypeptide sequence is orthologous t
US-10-838-616-31

Alignment Scores:
Pred. No.:      3.37e+03      Length:      1068
Score:          46.00        Matches:      8
Percent Similarity: 81.8%    Conservative: 1
Best Local Similarity: 72.7% Mismatches: 2
Query Match:     52.9%      Indels:      0
DB:              6         Gaps:       0

SWOP-018-SEQ1 (1-15) x US-10-838-616-31 (1-1068)

Qy      3 GlyProSerGlyValaArgArgArgAsnCys 13
||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      586 GGAGGCCCTGCTGGAGCTCGTCGCTAGGTGT 554

RESULT 12
US-10-838-616-29/c
; Sequence 29, Application US/10838616
; Publication No. US2006008874A1
; GENERAL INFORMATION:
; APPLICANT: Mendel Biotechnology, Inc.
; APPLICANT: CREELMAN, Robert A
; APPLICANT: RATCLIFFE, Oliver
; APPLICANT: KUMIMOTO, Roderick W
; APPLICANT: GUTTERSON, Neal I
; APPLICANT: REUBER, T. Lynne
; APPLICANT: LIBBY, Jeffrey M
; TITLE OF INVENTION: Plant Transcriptional Regulators of Abiotic Stress
; FILE REFERENCE: MBI-0069CIP
; CURRENT APPLICATION NUMBER: US/10/838,616
; CURRENT FILING DATE: 2004-05-04
; PRIOR APPLICATION NUMBER: Stress-Related Polypeptides in Plants
; PRIOR FILING DATE: 2004-04-26
; PRIOR APPLICATION NUMBER: 10/685,922
; PRIOR FILING DATE: 2003-10-14
; PRIOR APPLICATION NUMBER: 09/810,836
; PRIOR FILING DATE: 2001-03-16
```

;; PRIOR APPLICATION NUMBER: 10/412,699  
;; PRIOR FILING DATE: 2003-04-10  
;; PRIOR APPLICATION NUMBER: 10/171,468  
;; PRIOR FILING DATE: 2002-06-14  
;; PRIOR APPLICATION NUMBER: 09/532,591  
;; PRIOR FILING DATE: 2000-03-22  
;; PRIOR APPLICATION NUMBER: 09/533,029  
;; PRIOR FILING DATE: 2000-03-22  
;; PRIOR APPLICATION NUMBER: 09/533,392  
;; PRIOR FILING DATE: 2000-03-22  
;; PRIOR APPLICATION NUMBER: 60/125,814  
;; PRIOR FILING DATE: 1999-03-23  
;; PRIOR APPLICATION NUMBER: 09/713,994  
;; PRIOR FILING DATE: 2000-11-16  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 68  
;; SOFTWARE: PatentIn version 3.2  
;; SEQ ID NO 29  
;; LENGTH: 1291  
;; TYPE: DNA  
;; ORGANISM: Oryza sativa  
;; FEATURE:  
;; OTHER INFORMATION: G3388 AP002913b GI:12328560 Predicted polypeptide sequence is c  
US-10-838-616-29

Alignment Scores:  
Pred. No.: 4.13e+03 Length: 1291  
Score: 46.00 Matches: 8  
Percent Similarity: 72.7% Conservative: 0  
Best Local Similarity: 72.7% Mismatches: 3  
Query Match: 52.9% Indels: 0  
DB: 6 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-838-616-29 (1-1291)

QY 3 GlyProSerGlyAlaArgArgAsnCys 13  
DB 586 GGAGCCCTCGCGAGCTCGCGCGTAGGTGT 554

## RESULT 13

US-10-750-185-56845/c  
; Sequence 56845, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; PRIOR FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 56845  
; LENGTH: 1778  
; TYPE: DNA  
; ORGANISM: Bovine 19866880782510  
US-10-750-185-56845

Alignment Scores:  
Pred. No.: 5.83e+03 Length: 1778  
Score: 46.00 Matches: 8  
Percent Similarity: 69.2% Conservative: 1  
Best Local Similarity: 61.5% Mismatches: 4  
Query Match: 52.9% Indels: 0  
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-750-185-56845 (1-1778)  
QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13  
DB 214 CATAGAGGCGCCGCCACCAGGAGCAAGAGGATGCCATGC 176

## RESULT 14

US-10-750-623-56845/c  
; Sequence 56845, Application US/10750623  
; Publication No. US20050287531A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-1  
; CURRENT APPLICATION NUMBER: US/10/750,623  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 56845  
; LENGTH: 1778  
; TYPE: DNA  
; ORGANISM: Bovine 19866880782510  
US-10-750-623-56845

Alignment Scores:  
Pred. No.: 5.83e+03 Length: 1778  
Score: 46.00 Matches: 8  
Percent Similarity: 69.2% Conservative: 1  
Best Local Similarity: 61.5% Mismatches: 4  
Query Match: 52.9% Indels: 0  
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-750-623-56845 (1-1778)

QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13  
DB 214 CATAGAGGCGCCGCCACCAGGAGCAAGAGGATGCCATGC 176

## RESULT 15

US-10-750-185-50234  
; Sequence 50234, Application US/10750185  
; Publication No. US20050260603A1  
; GENERAL INFORMATION:  
; APPLICANT: MMI GENOMICS, INC.  
; APPLICANT: DENISE, Sue K.  
; APPLICANT: KERR, Richard  
; APPLICANT: ROSENFELD, David  
; APPLICANT: HOLM, Tom  
; APPLICANT: BATES, Stephen  
; APPLICANT: FANTIN, Dennis  
; TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS  
; FILE REFERENCE: MM1100-2  
; CURRENT APPLICATION NUMBER: US/10/750,185  
; CURRENT FILING DATE: 2003-12-31  
; PRIOR APPLICATION NUMBER: US 60/437,482  
; PRIOR FILING DATE: 2002-12-31  
; NUMBER OF SEQ ID NOS: 64922  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 50234  
; LENGTH: 2957  
; TYPE: DNA  
; ORGANISM: Bovine 19866880580691  
US-10-750-185-50234

Alignment Scores:

```

Pred. No.: 1.01e+04 Length: 2957
Score: 46.00 Matches: 8
Percent Similarity: 69.2% Conservative: 1
Best Local Similarity: 61.5% Mismatches: 4
Query Match: 52.9% Indels: 0
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-750-185-50234 (1-2957)
Qy 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13
Db 279 TGGAGCGGCGCTCTGGAGCGGCGGCGCTCGGCCCTGT 317

RESULT 16
US-10-750-623-50234
; Sequence 50234, Application US/10750623
; Publication No. US20050287531A1
; GENERAL INFORMATION:
; APPLICANT: MMI GENOMICS, INC.
; APPLICANT: DENISE, Sue K.
; APPLICANT: KERR, Richard
; APPLICANT: ROSENFELD, David
; APPLICANT: HOLM, Tom
; APPLICANT: BATES, Stephen
; APPLICANT: FANTIN, Dennis
; TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
; FILE REFERENCE: MM1100-1
; CURRENT APPLICATION NUMBER: US/10/750, 623
; PRIOR FILING DATE: 2003-12-31
; PRIOR APPLICATION NUMBER: US 60/437, 482
; PRIOR FILING DATE: 2002-12-31
; NUMBER OF SEQ ID NOS: 64922
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 50234
; LENGTH: 2957
; TYPE: DNA
; ORGANISM: Bovine 19866880580691
US-10-750-623-50234

Alignment Scores:
Pred. No.: 1.01e+04 Length: 2957
Score: 46.00 Matches: 8
Percent Similarity: 69.2% Conservative: 1
Best Local Similarity: 61.5% Mismatches: 4
Query Match: 52.9% Indels: 0
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-750-623-50234 (1-2957)
Qy 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13
Db 279 TGGAGCGGCGCTCTGGAGCGGCGGCGCTCGGCCCTGT 317

RESULT 17
US-11-122-329-110
; Sequence 110, Application US/11122329
; Publication No. US20060019272A1
; GENERAL INFORMATION:
; APPLICANT: Geraci, Mark
; APPLICANT: Bull, Todd
; APPLICANT: Voelkel, Norbert
; APPLICANT: Coldren, Chris
; TITLE OF INVENTION: Diagnosis of Disease and Monitoring of Therapy Using Gene
; FILE REFERENCE: 2848-54
; CURRENT APPLICATION NUMBER: US/11/122,329
; PRIOR FILING DATE: 2005-05-03
; PRIOR APPLICATION NUMBER: 60/568,129
; PRIOR FILING DATE: 2004-05-03
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 110
; LENGTH: 3490
```

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; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-122-329-110

Alignment Scores:
Pred. No.: 1.21e+04 Length: 3490
Score: 46.00 Matches: 8
Percent Similarity: 90.9% Conservative: 2
Best Local Similarity: 72.7% Mismatches: 1
Query Match: 52.9% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-122-329-110 (1-3490)
Qy 2 SerGlyProSerGlyAlaArgArgAsnCys 12
Db 2874 AGCGGGCGCCGCCAGCGGAGGAGGAGGACAAAT 2906

RESULT 18
US-11-136-527-3727/c
; Sequence 3727, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3727
; LENGTH: 6903
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (6844)..(6844)
; OTHER INFORMATION: n is a, c, g, or t
US-11-136-527-3727

Alignment Scores:
Pred. No.: 2.52e+04 Length: 6903
Score: 46.00 Matches: 8
Percent Similarity: 76.9% Conservative: 2
Best Local Similarity: 61.5% Mismatches: 3
Query Match: 52.9% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-136-527-3727 (1-6903)
Qy 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13
Db 1338 TACACTGGACACCGTCAGCATGCGGAGGCGGAAGTTGT 1300

RESULT 19
US-11-136-527-1990/c
; Sequence 1990, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1990
```

; LENGTH: 7853  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-11-136-527-1990

Alignment Scores:  
Pred. No.: 2.89e+04 Length: 7853  
Score: 46.00 Matches: 8  
Percent Similarity: 76.9% Conservative: 2  
Best Local Similarity: 61.5% Mismatches: 3  
Query Match: 52.9% Indels: 0  
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-136-527-1990 (1-7853)

Qy 1 TyrSerGlyProProSerGlyAlaArgArgAsnCys 13  
|||:||||| 7853  
Db 1832 TACACTGGACACCGTCAGCATGCGAAGCGAAGTTGT 1794

RESULT 20

US-11-136-527-1981/c  
; Sequence 1981, Application US/11136527  
; Publication No. US20050287570A1  
; GENERAL INFORMATION:  
; APPLICANT: Wyeth  
; APPLICANT: Mounts, William M  
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes  
; FILE REFERENCE: 031896-041000 (AM101086)  
; CURRENT APPLICATION NUMBER: US/11/136,527  
; CURRENT FILING DATE: 2005-05-25  
; PRIOR APPLICATION NUMBER: US 60/574,294  
; PRIOR FILING DATE: 2005-05-26  
; NUMBER OF SEQ ID NOS: 362830  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 1981  
; LENGTH: 8275  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-11-136-527-1981

Alignment Scores:  
Pred. No.: 3.06e+04 Length: 8275  
Score: 46.00 Matches: 8  
Percent Similarity: 76.9% Conservative: 2  
Best Local Similarity: 61.5% Mismatches: 3  
Query Match: 52.9% Indels: 0  
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-136-527-1981 (1-8275)

Qy 1 TyrSerGlyProProSerGlyAlaArgArgAsnCys 13  
|||:||||| 8275  
Db 1356 TACACTGGACACCGTCAGCATGCGAAGCGAAGTTGT 1318

RESULT 21

US-10-995-561-13383  
; Sequence 13383, Application US/10995561  
; Publication No. US20050272054A1  
; GENERAL INFORMATION:  
; APPLICANT: CARGILL, Michele et al.  
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH  
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF  
; FILE REFERENCE: CL001559  
; CURRENT APPLICATION NUMBER: US/10/995,561  
; CURRENT FILING DATE: 2004-11-24  
; NUMBER OF SEQ ID NOS: 85702  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 13383  
; LENGTH: 88873  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:

; NAME/KEY: misc feature  
; LOCATION: (1) - (88873)  
; OTHER INFORMATION: n = A,T,C or G, or insertion/deletion polymorphism (see Tables 1  
US-10-995-561-13383

Alignment Scores:  
Pred. No.: 3.89e+05 Length: 88873  
Score: 46.00 Matches: 8  
Percent Similarity: 76.9% Conservative: 2  
Best Local Similarity: 61.5% Mismatches: 3  
Query Match: 52.9% Indels: 0  
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-995-561-13383 (1-88873)

Qy 3 GlyProProSerGlyAlaArgArgAsnCysTyrGlu 15  
|||:||||| 88873  
Db 45138 GGGGCTCTCGCAGGAAGGAGGCGGTGTGTGCATGAA 45176

RESULT 22

US-10-838-616-19/c  
; Sequence 19, Application US/10838616  
; Publication No. US20060008874A1  
; GENERAL INFORMATION:  
; APPLICANT: Mendel Biotechnology, Inc.  
; APPLICANT: CREELMAN, Robert A  
; APPLICANT: RATCLIFFE, Oliver  
; APPLICANT: KUMIMOTO, Roderick W  
; APPLICANT: GUTTERSON, Neal I  
; APPLICANT: REUBER, T. Lynne  
; APPLICANT: LIBBY, Jeffrey M  
; TITLE OF INVENTION: Plant Transcriptional Regulators of Abiotic Stress  
; FILE REFERENCE: MBI-0069CIP  
; CURRENT APPLICATION NUMBER: US/10/838,616  
; CURRENT FILING DATE: 2004-05-04  
; PRIOR APPLICATION NUMBER: Stress-Related Polypeptides in Plants  
; PRIOR FILING DATE: 2004-04-26  
; PRIOR APPLICATION NUMBER: 10/685,922  
; PRIOR FILING DATE: 2003-10-14  
; PRIOR APPLICATION NUMBER: 09/810,836  
; PRIOR FILING DATE: 2001-03-16  
; PRIOR APPLICATION NUMBER: 10/412,699  
; PRIOR FILING DATE: 2003-04-10  
; PRIOR APPLICATION NUMBER: 10/171,468  
; PRIOR FILING DATE: 2002-06-14  
; PRIOR APPLICATION NUMBER: 09/532,591  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 09/533,029  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 09/533,392  
; PRIOR FILING DATE: 2000-03-22  
; PRIOR APPLICATION NUMBER: 60/125,814  
; PRIOR FILING DATE: 1999-03-23  
; PRIOR APPLICATION NUMBER: 09/713,994  
; PRIOR FILING DATE: 2000-11-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 68  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 19  
; LENGTH: 1067  
; TYPE: DNA  
; ORGANISM: Oryza sativa  
; FEATURE:

US-10-838-616-19  
; OTHER INFORMATION: Predicted polypeptide sequence is orthologous to G9  
US-10-838-616-19

Alignment Scores:  
Pred. No.: 4.74e+03 Length: 1067  
Score: 45.00 Matches: 8  
Percent Similarity: 72.7% Conservative: 0  
Best Local Similarity: 72.7% Mismatches: 3  
Query Match: 51.7% Indels: 0  
DB: 6 Gaps: 0

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SWOP-018-SEQ1 (1-15) x US-10-838-616-19 (1-1067)
Qy      3  GlyProProSerGlyAlaArgArgAenCys 13
Db      605 GGAGGCCCTGGCGGAGCTCTCGCGGTAGGTGT 573

RESULT 23
US-10-826-585-15
; Sequence 15, Application US/10826585
; Publication No. US2006008807A1
; GENERAL INFORMATION:
; APPLICANT: Immunivest Corporation
; APPLICANT: O'Hara, Shawn Mark
; APPLICANT: Foulk, Brad
; APPLICANT: Zweitzig, Daniel
; TITLE OF INVENTION: Multiparameter analysis of comprehensive nucleic acids and
; FILE REFERENCE: IMMC 143 PCT/US
; CURRENT APPLICATION NUMBER: US/10/826,585
; CURRENT FILING DATE: 2004-04-16
; PRIOR APPLICATION NUMBER: 60/369945
; PRIOR FILING DATE: 2002-04-04
; PRIOR APPLICATION NUMBER: 60/330669
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: PCT/US02/26867
; PRIOR FILING DATE: 2002-08-23
; NUMBER OF SEQ ID NOS: 131
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 15
; TYPE: DNA
; ORGANISM: Human
US-10-826-585-15

Alignment Scores:
Pred. No.:      8.41e+03      Length: 1817
Score:          45.00        Matches: 9
Percent Similarity: 64.3%    Conservative: 0
Best Local Similarity: 64.3% Mismatches: 5
Query Match:    51.7%       Indels: 0
DB:             6           Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-826-585-15 (1-1817)
Qy      1  TyrSerGlyProProSerGlyAlaArgArgAenCysTyr 14
Db      1146 TACTTACCGCGCCTCTCTGGAAGGAGAGACGTAAAAAACTAC 1187

RESULT 24
US-11-178-134-5
; Sequence 5, Application US/11178134
; Publication No. US20060019290A1
; GENERAL INFORMATION:
; APPLICANT: University of Pittsburgh - of The Commonwealth System of
; APPLICANT: Higher Education
; APPLICANT: Godfrey, Tony
; APPLICANT: Hughes, Steven
; APPLICANT: Xi, Liqiang
; APPLICANT: Gooding, William E
; APPLICANT: Raja, Siva E
; TITLE OF INVENTION: Identification of Markers in Esophageal Cancer, Colon Cancer,
; FILE REFERENCE: 030160
; CURRENT APPLICATION NUMBER: US/11/178,134
; CURRENT FILING DATE: 2005-07-08
; PRIOR APPLICATION NUMBER: 60/586,599
; PRIOR FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: 60/587,019
; PRIOR FILING DATE: 2004-07-09
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 5

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; LENGTH: 1817
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-178-134-5

Alignment Scores:
Pred. No.:      8.41e+03      Length: 1817
Score:          45.00        Matches: 9
Percent Similarity: 64.3%    Conservative: 0
Best Local Similarity: 64.3% Mismatches: 5
Query Match:    51.7%       Indels: 0
DB:             11          Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-178-134-5 (1-1817)
Qy      1  TyrSerGlyProProSerGlyAlaArgArgAenCysTyr 14
Db      1146 TACTTACCGCGCCTCTCTGGAAGGAGAGACGTAAAAAACTAC 1187

RESULT 25
US-11-120-351A-1
; Sequence 1, Application US/11120351A
; Publication No. US20050262586A1
; GENERAL INFORMATION:
; APPLICANT: GIDEKEL, Manuel
; TITLE OF INVENTION: Low temperature responsive nucleotide sequences and uses thereof
; FILE REFERENCE: Vitrogen Low Temperature
; CURRENT APPLICATION NUMBER: US/11/120,351A
; CURRENT FILING DATE: 2005-05-02
; PRIOR APPLICATION NUMBER: 60/567,135
; PRIOR FILING DATE: 2004-04-30
; PRIOR APPLICATION NUMBER: 60/567,125
; PRIOR FILING DATE: 2004-05-02
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
; LENGTH: 1920
; TYPE: DNA
; ORGANISM: Deschampsia antarctica
; FEATURE:
; NAME/KEY: promoter
; LOCATION: (1)..(1089)
; FEATURE:
; NAME/KEY: 5'UTR
; LOCATION: (1089)..(1209)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1209)..(1920)
; OTHER INFORMATION: coding sequence plus poly-A tail
US-11-120-351A-1

Alignment Scores:
Pred. No.:      8.92e+03      Length: 1920
Score:          45.00        Matches: 7
Percent Similarity: 75.0%    Conservative: 2
Best Local Similarity: 58.3% Mismatches: 3
Query Match:    51.7%       Indels: 0
DB:             11          Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-120-351A-1 (1-1920)
Qy      2  SerGlyProProSerGlyAlaArgArgAenCys 13
Db      1178 GCCTGGCCGCCACACGCGGAGCGAGGAGAGATGC 1213

RESULT 26
US-11-121-086-1/c
; Sequence 1, Application US/11121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES

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; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-1

Alignment Scores:
Pred. No.: 7.89e+05 Length: 126552
Score: 45.00 Matches: 8
Percent Similarity: 61.5% Conservative: 0
Best Local Similarity: 61.5% Mismatches: 5
Query Match: 51.7% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-121-086-1 (1-126552)
QY 3 GlyProProSerGlyAlaArgArgAsnCysTyrGlu 15
Db 75271 GGCCCTCCACTCGAGGCTCTTCGGATCGATGTAAGAA 75233

RESULT 27
US-11-121-086-66
; Sequence 66, Application US/11/121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 66
; LENGTH: 163162
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-66

Alignment Scores:
Pred. No.: 1.03e+06 Length: 163162
Score: 45.00 Matches: 8
Percent Similarity: 66.7% Conservative: 0
Best Local Similarity: 66.7% Mismatches: 4
Query Match: 51.7% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SRQ1 (1-15) x US-11-121-086-66 (1-163162)
QY 3 GlyProProSerGlyAlaArgArgAsnCysTyr 14
Db 54738 GGCCACCTTCTTCGGCAGCAGATGCGCTGCTAC 54773

RESULT 28
US-11-121-086-2
; Sequence 2, Application US/11/121086
; Publication No. US20050266459A1
; GENERAL INFORMATION:
; APPLICANT: POULSEN, TIM S.
; APPLICANT: NIELSEN, KIRSTEN V.
; TITLE OF INVENTION: NUCLEIC ACID PROBES AND NUCLEIC ACID ANALOG PROBES
; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04

; FILE REFERENCE: 09138.6000-00000
; CURRENT APPLICATION NUMBER: US/11/121,086
; CURRENT FILING DATE: 2005-05-04
; PRIOR APPLICATION NUMBER: 60/567,570
; PRIOR FILING DATE: 2004-05-04
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 191684
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-121-086-2

Alignment Scores:
Pred. No.: 1.21e+06 Length: 191684
Score: 45.00 Matches: 8
Percent Similarity: 100.0% Conservative: 1
Best Local Similarity: 88.9% Mismatches: 0
Query Match: 51.7% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-121-086-2 (1-191684)
QY 2 SerGlyProProSerGlyAlaArgArg 10
Db 47745 ACGGCCCGCCCTTCAGGGCGGAGCGG 47771

RESULT 29
US-10-995-561-63977
; Sequence 63977, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; TITLE OF INVENTION: DETECTION AND USES THEREOF
; FILE REFERENCE: CL001559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 63977
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-63977

Alignment Scores:
Pred. No.: 1.1e+03 Length: 201
Score: 44.00 Matches: 8
Percent Similarity: 69.2% Conservative: 1
Best Local Similarity: 61.5% Mismatches: 4
Query Match: 50.6% Indels: 0
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-995-561-63977 (1-201)
QY 1 TyrSerGlyProProSerGlyAlaArgArgAsnCys 13
Db 127 TACACGGGTACCCACGCGTGCACGTTTCGTCGTGTGT 165

RESULT 30
US-11-124-367A-1731/c
; Sequence 1731, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: Hongjin Huang
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; CURRENT APPLICATION NUMBER: US 60/582,609
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; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1731
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-1731

Alignment Scores:
Pred. No.: 1.1e+03 Length: 201
Score: 44.00 Matches: 7
Percent Similarity: 72.7% Conservative: 1
Best Local Similarity: 63.6% Mismatches: 3
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-124-367A-1731 (1-201)
Qy 3 GlyProSerGlyAlaArgArgAsnCys 13
Db 201 GGGCTCCAGCAGGACACGCGCTTGC 169

RESULT 31
US-11-124-367A-1741/c
; Sequence 1741, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US/11/124,367A
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1741
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-1741

Alignment Scores:
Pred. No.: 1.1e+03 Length: 201
Score: 44.00 Matches: 7
Percent Similarity: 72.7% Conservative: 1
Best Local Similarity: 63.6% Mismatches: 3
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-124-367A-1741 (1-201)
Qy 3 GlyProSerGlyAlaArgArgAsnCys 13
Db 201 GGGCTCCAGCAGGACACGCGCTTGC 169

RESULT 32
US-11-124-367A-1750/c
; Sequence 1750, Application US/11124367A
; Publication No. US20060024700A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
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; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 34460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1750
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-124-367A-1750

Alignment Scores:
Pred. No.: 1.1e+03 Length: 201
Score: 44.00 Matches: 7
Percent Similarity: 72.7% Conservative: 1
Best Local Similarity: 63.6% Mismatches: 3
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-124-367A-1750 (1-201)
Qy 3 GlyProSerGlyAlaArgArgAsnCys 13
Db 201 GGGCTCCAGCAGGACACGCGCTTGC 169

RESULT 33
US-10-467-657-2637
; Sequence 2637, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
; APPLICANT: FONTANA Maria Rita
; APPLICANT: PIZZA Mariagrazia
; APPLICANT: MASIGNANI Vega
; APPLICANT: MONACI Elisabetta
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/467,657
; CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 9218
; SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 2637
; LENGTH: 732
; TYPE: DNA
; ORGANISM: Neisseria gonorrhoeae
US-10-467-657-2637

Alignment Scores:
Pred. No.: 4.45e+03 Length: 732
Score: 44.00 Matches: 7
Percent Similarity: 81.8% Conservative: 2
Best Local Similarity: 63.6% Mismatches: 2
Query Match: 50.6% Indels: 0
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-467-657-2637 (1-732)
Qy 4 ProProSerGlyAlaArgArgAsnCysTyr 14
Db 477 CCAAAATCAGGCAAAAGACGGCAAACTGCTTT 509

RESULT 34
US-11-055-822-151
; Sequence 151, Application US/11055822
```

```

: Publication No. US20050260707A1
: GENERAL INFORMATION:
: APPLICANT: Pompejus, Markus
: APPLICANT: Kroger, Burkhard
: APPLICANT: Schroder, Hartwig
: APPLICANT: Zeider, Oskar
: APPLICANT: Haberhauser, Gregor
: TITLE OF INVENTION: CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
: TITLE OF INVENTION: METABOLIC PATHWAY PROTEINS
: FILE REFERENCE: BGI-121CPCN
: CURRENT APPLICATION NUMBER: US/11/055,822
: CURRENT FILING DATE: 2005-02-11
: PRIOR APPLICATION NUMBER: 09/606,740
: PRIOR FILING DATE: 2000-06-23
: PRIOR APPLICATION NUMBER: 60/141,031
: PRIOR FILING DATE: 1999-06-25
: PRIOR APPLICATION NUMBER: 60/142,101
: PRIOR FILING DATE: 1999-07-02
: PRIOR APPLICATION NUMBER: 60/148,613
: PRIOR FILING DATE: 1999-08-12
: PRIOR APPLICATION NUMBER: 60/187,970
: PRIOR FILING DATE: 2000-03-09
: PRIOR APPLICATION NUMBER: DE 19930476.9
: PRIOR FILING DATE: 1999-07-01
: PRIOR APPLICATION NUMBER: DE 19931415.2
: PRIOR FILING DATE: 1999-07-08
: PRIOR APPLICATION NUMBER: DE 19931418.7
: PRIOR FILING DATE: 1999-07-08
: PRIOR APPLICATION NUMBER: DE 19931419.5
: PRIOR FILING DATE: 1999-07-08
: PRIOR APPLICATION NUMBER: DE 19931420.9
: PRIOR FILING DATE: 1999-07-08
: Remaining Prior Application data removed - See File Wrapper or PALM
: NUMBER OF SEQ ID NOS: 1158
: SEQ ID NO 151
: LENGTH: 1251
: TYPE: DNA
: ORGANISM: Corynebacterium glutamicum
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (101)..(1228)
: OTHER INFORMATION: RXA02176
US-11-055-822-151

Alignment Scores:
Seq. No.: 7.92e+03 Length: 1251
Score: 44.00 Matches: 7
Percent Similarity: 80.0% Conservativeness: 1
Best Local Similarity: 70.0% Mismatches: 2
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-055-822-151 (1-1251)

QY 5 ProSerGlyAlaArgArgAenCysTyr 14
|||::||| ||||| ||||| |||||
DB 499 CCCAGGCGATTCGAAGCGCCGATGTAT 528

RESULT 35
US-11-124-367A-101/c
: Sequence 101, Application US/11124367A
: Publication No. US20060024700A1
: GENERAL INFORMATION:
: APPLICANT: Michele Cargill
: APPLICANT: Hongjin Huang
: TITLE OF INVENTION: Genetic Polymorphisms Associated with
: TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
: FILE REFERENCE: CL001519.ORD
: CURRENT APPLICATION NUMBER: US/11/124,367A
: CURRENT FILING DATE: 2005-05-09
: PRIOR APPLICATION NUMBER: US 60/568,846
: PRIOR FILING DATE: 2004-05-07
: PRIOR APPLICATION NUMBER: US 60/582,609

```

```
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CLO01519.ORD
; CURRENT APPLICATION NUMBER: US/11/124,367A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,846
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/582,609
; PRIOR FILING DATE: 2004-06-25
; PRIOR APPLICATION NUMBER: US 60/599,554
; PRIOR FILING DATE: 2004-08-09
; NUMBER OF SEQ ID NOS: 60/599,554
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 99
; LENGTH: 2595
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-124-367A-99

Alignment Scores:
Pred. No.: 1.74e+04 Length: 2595
Score: 44.00 Matches: 7
Percent Similarity: 72.7% Conservative: 1
Best Local Similarity: 63.6% Mismatches: 3
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-124-367A-99 (1-2595)
Qy 3 GlyProSerGlyAlaArgArgAsnCys 13
Db 1612 GGGCGCTCCAGCAGGACACGCCGCTTGGCTGC 1580

RESULT 38
US-11-136-527-2431/c
; Sequence 2431, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Fibrosis Methods of Detection and Uses Thereof
; FILE REFERENCE: CLO01519.ORD
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2431
; LENGTH: 5093
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2431

Alignment Scores:
Pred. No.: 3.6e+04 Length: 5093
Score: 44.00 Matches: 7
Percent Similarity: 75.0% Conservative: 2
Best Local Similarity: 58.3% Mismatches: 3
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-136-527-2431 (1-5093)
Qy 2 SerGlyProSerGlyAlaArgArgAsnCys 13
Db 3224 ACTGGCCCTCCCGAGGACCCAGGACCACTGT 3189

RESULT 39
US-11-136-527-2395
; Sequence 2395, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
```

```
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays For Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2395
; LENGTH: 6384
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2395

Alignment Scores:
Pred. No.: 4.59e+04 Length: 6384
Score: 44.00 Matches: 7
Percent Similarity: 72.7% Conservative: 1
Best Local Similarity: 63.6% Mismatches: 3
Query Match: 50.6% Indels: 0
DB: 11 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-11-136-527-2395 (1-6384)
Qy 4 ProProSerGlyAlaArgArgAsnCysTyr 14
Db 30 CGCGCGTGTGGCGCGCGCGCGCGCGTGCAT 62

RESULT 40
US-10-995-561-13368
; Sequence 13368, Application US/10995561
; Publication No. US20050272054A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; CARDIOVASCULAR DISORDERS AND DRUG RESPONSE, METHODS OF
; DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01559
; CURRENT APPLICATION NUMBER: US/10/995,561
; CURRENT FILING DATE: 2004-11-24
; NUMBER OF SEQ ID NOS: 85702
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13368
; LENGTH: 70513
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-995-561-13368

Alignment Scores:
Pred. No.: 5.97e+05 Length: 70513
Score: 44.00 Matches: 8
Percent Similarity: 69.2% Conservative: 1
Best Local Similarity: 61.5% Mismatches: 4
Query Match: 50.6% Indels: 0
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-995-561-13368 (1-70513)
Qy 1 TyrSerGlyProProSerGlyAlaArgArgAsnCys 13
Db 36258 TACACGGGTACCCACCGCGGTGACGTTTGGTGCATGT 36296

Search completed: February 13, 2006, 18:07:51
Job time : 434 secs
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GenCore version 5.1.7  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: February 13, 2006, 17:44:48 ; Search time 798 Seconds  
(without alignments)  
155.439 Million cell updates/sec

Title: SWOP-018-SEQ1

Perfect score: 87  
Sequence: 1 yesgpgarrncye 15

Scoring table: BLOSUM62  
Xgapop 10.0 , Xgapext 0.5  
Ygapop 10.0 , Ygapext 0.5  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Maximum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Command line parameters:  
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-Q=/abs/ABSSWEB.spool/SWOP018964/runat.10022006.143756.512/app.query.fasta.1  
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-LOOPCL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62  
-TRANS=human40.cdi -LIST=45 -DOCALLIGN=200 -THR\_SCORE=pct -THR\_MAX=100  
-THR\_MIN=0 -ALIGN=40 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -HOST=abs06p  
-USER=SWOP018964 @CGN 1.1 1549 @runat.10022006.143756.512 -ICPU=3  
-NO\_MMAP -NEG\_SCORES=0 -WAIT -DSEBLOCK=100 -LONGLOG -DEV TIMEOUT=120  
-WARN\_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6 -FGAPEXT=7  
-YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA Main:

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2: /cgn2\_6/ptodata/1/pubpna/US08\_PUBCOMB.seq.\*  
3: /cgn2\_6/ptodata/1/pubpna/US09A\_PUBCOMB.seq.\*  
4: /cgn2\_6/ptodata/1/pubpna/US09B\_PUBCOMB.seq.\*  
5: /cgn2\_6/ptodata/1/pubpna/US10A\_PUBCOMB.seq.\*  
6: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq.\*  
8: /cgn2\_6/ptodata/1/pubpna/US10D\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/1/pubpna/US10E\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/1/pubpna/US11\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	ID	Description
1	87	100.0	2480	5	US-10-157-031-400	Sequence 400, App
2	87	100.0	2744	8	US-10-723-860-7932	Sequence 7932, App
3	87	100.0	3025	8	US-10-473-126-45	Sequence 45, Appl
4	64	73.6	3025	8	US-10-473-126-183	Sequence 183, App
5	63	72.4	1849	9	US-10-492-901-7	Sequence 7, Appl
6	56	64.4	3025	8	US-10-473-126-184	Sequence 184, App
7	53	60.9	461	8	US-10-425-115-124483	Sequence 124483,

C	8	60.9	1349	9	US-10-764-420-2046	Sequence 2046, Ap
C	9	59.8	542	8	US-10-357-930-12548	Sequence 12548, A
C	10	59.8	600	9	US-10-972-079-71829	Sequence 71829, A
C	11	59.8	2358	7	US-10-282-122A-13812	Sequence 13812, A
C	12	58.6	603	9	US-10-501-282-3109	Sequence 3109, Ap
C	13	58.6	603	9	US-10-501-282-3111	Sequence 3111, Ap
C	14	58.6	855	5	US-10-128-714-2252	Sequence 2252, Ap
C	15	58.6	855	5	US-10-128-714-2252	Sequence 7252, Ap
C	16	58.6	908	5	US-10-128-714-1252	Sequence 1252, Ap
C	17	58.6	908	5	US-10-128-714-6252	Sequence 6252, Ap
C	18	58.6	1233	9	US-10-680-860A-76	Sequence 76, Appl
C	19	58.6	1865	9	US-10-450-763-7794	Sequence 7794, Ap
C	20	58.6	2328	7	US-10-437-963-48056	Sequence 48056, A
C	21	58.6	2908	5	US-10-128-714-252	Sequence 252, App
C	22	58.6	2908	5	US-10-128-714-5252	Sequence 5252, App
C	23	58.6	30943	9	US-10-680-860A-1	Sequence 1, Appli
C	24	58.6	138203	9	US-10-819-386A-1	Sequence 1, Appli
C	25	58.6	1754382	9	US-10-501-282-6651	Sequence 6651, Ap
C	26	57.5	202	6	US-10-305-720-285	Sequence 285, App
C	27	57.5	356	8	US-10-425-115-53450	Sequence 53450, A
C	28	57.5	400	8	US-10-425-115-112349	Sequence 112349,
C	29	57.5	611	4	US-09-925-065A-84486	Sequence 84486, A
C	30	57.5	754	7	US-10-437-963-65811	Sequence 65811, A
C	31	57.5	768	8	US-10-425-115-75153	Sequence 75153, A
C	32	57.5	2472	10	US-11-019-829-11	Sequence 11, Appl
C	33	57.5	5023	8	US-10-723-860-376	Sequence 376, App
C	34	57.5	5084	8	US-10-335-053-96	Sequence 96, Appl
C	35	57.5	5117	8	US-10-723-860-5073	Sequence 5073, Ap
C	36	57.5	5118	9	US-10-887-553A-1140	Sequence 1140, Ap
C	37	57.5	52307	8	US-10-211-028-12	Sequence 12, Appl
C	38	57.5	52302	3	US-09-997-722-4	Sequence 4, Appli
C	39	57.5	90597	8	US-10-211-028-1	Sequence 1, Appli
C	40	56.3	426	7	US-10-424-599-129806	Sequence 129806,
C	41	56.3	520	7	US-10-767-701-15225	Sequence 15225, A
C	42	56.3	687	8	US-10-425-115-102582	Sequence 102582,
C	43	56.3	799	7	US-10-425-114-3077	Sequence 3077, Ap
C	44	56.3	1012	7	US-10-437-963-46584	Sequence 46584, A
C	45	56.3	1048	7	US-10-437-963-46585	Sequence 46585, A

ALIGNMENTS

RESULT 1

; Sequence 400, Application US/10157031  
; Publication No. US20030108890A1  
; GENERAL INFORMATION:  
; APPLICANT: Baranova, A. V.  
; APPLICANT: Yankovsky, N. K.  
; APPLICANT: Kozlov, A. P.  
; APPLICANT: Lobashev, A. V. L.  
; APPLICANT: Krutovskaya, L. L.  
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequence  
; FILE OF INVENTION: 2760-103  
; CURRENT APPLICATION NUMBER: US/10/157,031  
; CURRENT FILING DATE: 2002-05-30  
; NUMBER OF SEQ ID NOS: 415  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 400  
; LENGTH: 2480  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-157-031-400

Alignment Scores:			
Pred. No.:	0.000357	Length:	2480
Score:	87.00	Matches:	15
Percent Similarity:	100.0%	Conservative:	0
Best Local Similarity:	100.0%	Mismatches:	0
Query Match:	100.0%	Indels:	0
DB:	5	Gaps:	0
SWOP-018-SEQ1 (1-15) x US-10-157-031-400 (1-2480)			

QY 1 TyrSerGlyProProSerGlyAlaArgArgArgAsnCysTyrGlu 15  
DP 850 TACAGCGGGCCCCGAGCGGCGCCGGCGGGCGGAACGTCTACAA 894

```

RESULT 2
US-10-723-860-7932
; Sequence 7932, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlocznik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10723.860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7932
; LENGTH: 2744
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2534)..(2743)
; OTHER INFORMATION: n is a, c, g, or t
US-10-723-860-7932

```

```

RESULT 3
US-10-473-126-45
; Sequence 45, Application US/10473126
; Publication No. US20040234973A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Methods and nucleic acids for the analysis of hematopoietic cell
; TITLE OF INVENTION: Proliferative disorders
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/473,126
; CURRENT FILING DATE: 2003-09-26
; NUMBER OF SEQ ID NOS: 1258
; SEQ ID NO 45
; LENGTH: 3025
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-10-473-126-45

Alignment Scores:
Pred. No.: 0.000435
Score: 87.00
Percent Similarity: 100.0%
Best Local Similarity: 100.0%
Query Match: 100.0%
DB: 8
Gaps: 0
Indels: 0
Mismatches: 0
Conservative: 0
Matches: 15
Length: 3025

SWOP-018-SEQ1 (1-15) x US-10-473-126-45 (1-3025)

```

Qy 1 TyrSerGlyProProSerGlyAlaArgArgArgAsnCysTyrGlu 15  
Db 1761 TACAGCGGCCCCCGAGCGGGCCCCGGCGCGGAAC TGCTACGAA 1805

```

RESULT 4
US-10-473-126-183
; Sequence 183, Application US/10473126
; Publication No. US20040234973A1
; GENERAL INFORMATION:
; APPLICANT: Epigenomics AG
; TITLE OF INVENTION: Methods and nucleic acids for the analysis of
; TITLE OF INVENTION: proliferative disorders
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/10/473,126
; CURRENT FILING DATE: 2003-09-26
; NUMBER OF SEQ ID NOS: 1258
; SEQ ID NO 183
; LENGTH: 3025
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
US-10-473-126-183

Alignment Scores:
Pred. No.: 2.81 Length: 3025
Score: 64.00 Matches: 12
Percent Similarity: 80.0% Conservative: 0
Best Local Similarity: 80.0% Mismatches: 3
Query Match: 73.6% Indels: 0
DB: 8 Gaps: 0

```

RESULT 5  
US-10-492-901-7  
; Sequence 7, Application US/10492901  
; Publication No. US20050054091A1  
; GENERAL INFORMATION:  
; APPLICANT: The Government of the United States of America, as  
; APPLICANT: represented by the Secretary of the Department of Health and  
; APPLICANT: Human Services  
; APPLICANT: Sartorelli, Vittorio  
; APPLICANT: Puri, Pier  
; TITLE OF INVENTION: METHODS OF USING DEACETYLASE INHIBITORS TO PROMOTE CELL  
; FILE REFERENCE: 4239-67979  
; CURRENT APPLICATION NUMBER: US/10/492,901  
; CURRENT FILING DATE: 2004-04-15  
; PRIOR APPLICATION NUMBER: US 60/343,854  
; PRIOR FILING DATE: 2001-10-25  
; PRIOR APPLICATION NUMBER: US 60/335,705  
; PRIOR FILING DATE: 2001-10-18  
; NUMBER OF SEQ ID NOS: 14  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 7  
; LENGTH: 1849  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-10-492-901-7

Alignment Scores:	2.52	Length:	1849
Pred. No.:	63.00	Matches:	11
Score:	86.7%	Conservative:	2
Percent Similarity:	86.7%	Mismatches:	2
Best Local Similarity:	73.3%	Indels:	0
Query Match:	72.4%	Gaps:	0
DB:	9		



```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12548
; LENGTH: 542
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-12548
```

```
Alignment Scores:
Pred. No.: 49.3 Length: 542
Score: 52.00 Matches: 8
Percent Similarity: 71.4% Conservative: 2
Best Local Similarity: 57.1% Mismatches: 4
Query Match: 59.8% Indels: 0
DB: 8 Gaps: 0
```

SWOP-018-SEQ1 (1-15) x US-10-357-930-12548 (1-542)

```
QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCysTyr 14
      :::::::::::::::::::::
DB 316 CACTCGGGCCCCCTCTCCGAAGCGTCGAACGTGTAT 275
```

RESULT 10

```
US-10-972-079-71829
; Sequence 71829, Application US/10972079
; Publication No. US20050153917A1
```

GENERAL INFORMATION:

APPLICANT: MMI GENOMICS, INC.

APPLICANT: DENISE, Sue K.

APPLICANT: ROSENFELD, David

APPLICANT: KERR, Richard

APPLICANT: BATES, Stephen

APPLICANT: HOLM, Tom

TITLE OF INVENTION: METHODS & SYSTEMS FOR INFERRING TRAITS TO BREED & MANAGE NON-BEER

TITLE OF INVENTION: LIVESTOCK

FILE REFERENCE: W01110-2

CURRENT APPLICATION NUMBER: US/10/972,079

CURRENT FILING DATE: 2004-10-22

PRIOR APPLICATION NUMBER: US 60/514,333

PRIOR FILING DATE: 2003-10-24

NUMBER OF SEQ ID NOS: 96631

SOFTWARE: PatentIn version 3.1

SEQ ID NO 71829

LENGTH: 600

TYPE: DNA

ORGANISM: Chicken 19866894350992\_1

US-10-972-079-71829

```
Alignment Scores:
Pred. No.: 54.6 Length: 600
Score: 52.00 Matches: 8
Percent Similarity: 86.7% Conservative: 5
Best Local Similarity: 53.3% Mismatches: 2
Query Match: 59.8% Indels: 0
DB: 9 Gaps: 0
```

SWOP-018-SEQ1 (1-15) x US-10-972-079-71829 (1-600)

```
QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCysTyrGlu 15
      :::::::::::::::::::::
DB 357 TTCTCTGGCTCAGAAATGGCAGCAGAGGAGGAATTTTACCAG 401
```

RESULT 11

```
US-10-282-122A-13812
```

Sequence 13812, Application US/10282122A

Publication No. US20040029129A1

GENERAL INFORMATION:

APPLICANT: Wang, Liangsu

APPLICANT: Zamudio, Carlos

APPLICANT: Malone, Cheryl

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Kari

APPLICANT: Zykkind, Judith

APPLICANT: Wall, Daniel

```
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 13812
; LENGTH: 2358
; TYPE: DNA
; ORGANISM: Burkholderia mallei
US-10-282-122A-13812
```

```
Alignment Scores:
Pred. No.: 213 Length: 2358
Score: 52.00 Matches: 9
Percent Similarity: 91.7% Conservative: 2
Best Local Similarity: 75.0% Mismatches: 1
Query Match: 59.8% Indels: 0
DB: 7 Gaps: 0
```

SWOP-018-SEQ1 (1-15) x US-10-282-122A-13812 (1-2358)

```
QY 2 SerGlyProSerGlyAlaArgArgAsnCys 13
      :::::::::::::::::::::
DB 1283 AGCGGGCGCGCGGCTCGCGAGGCGATCGTGC 1318
```

RESULT 12

```
US-10-501-282-3109/c
```

Sequence 3109, Application US/10501282

Publication No. US20050203280A1

GENERAL INFORMATION:

APPLICANT: MCWICHAEL, JOHN CALHOUN

APPLICANT: ZAGORSKY, ROBERT JOHN

APPLICANT: RUSSELL, DAVID PARRISH

APPLICANT: FLETCHER, LEAH DIANE

TITLE OF INVENTION: ALLOIOCCUTIS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING

FILE REFERENCE: AM100780 L2

CURRENT APPLICATION NUMBER: US/10/501,282

CURRENT FILING DATE: 2004-07-09

PRIOR APPLICATION NUMBER: 60/333,777

PRIOR FILING DATE: 2001-11-29

PRIOR APPLICATION NUMBER: 60/426,742

PRIOR FILING DATE: 2002-11-18

PRIOR APPLICATION NUMBER: PCT/US02/36123

PRIOR FILING DATE: 2002-11-25

NUMBER OF SEQ ID NOS: 6653



```
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3109
; LENGTH: 603
; TYPE: DNA
; ORGANISM: Alloiococcus otitidis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (19)..(600)
US-10-501-282-3109

Alignment Scores:
Pred. No.: 80.3 Length: 603
Score: 51.00 Matches: 9
Percent Similarity: 66.7% Conservative: 1
Best Local Similarity: 60.0% Mismatches: 5
Query Match: 58.6% Indels: 0
DB: 0

SWOP-018-SEQ1 (1-15) x US-10-501-282-3109 (1-603)

Qy 1 TytSerGlyProSerGlyAlaArgArgArgAsnCysTyrGlu 15
Db 418 TATAGTGGACAAAAGCTCAGCAAGCGCACCGCAATGCTATCAA 374

RESULT 13
US-10-501-282-3111/c
; Sequence 3111, Application US/10501282
; Publication No. US20050203280A1
; GENERAL INFORMATION:
; APPLICANT: MCMICHAEL, JOHN CALHOUN
; APPLICANT: ZAGURSKY, ROBERT JOHN
; APPLICANT: RUSSELL, DAVID PARRISH
; APPLICANT: FLETCHER, LEAH DIANE
; TITLE OF INVENTION: ALLOTOCOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING
; FILE REFERENCE: AM100780 L2
; CURRENT APPLICATION NUMBER: US/10/501.282
; CURRENT FILING DATE: 2004-07-09
; PRIOR APPLICATION NUMBER: 60/333,777
; PRIOR FILING DATE: 2001-11-29
; PRIOR APPLICATION NUMBER: 60/426,742
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: PCT/US02/36123
; PRIOR FILING DATE: 2002-11-25
; NUMBER OF SEQ ID NOS: 6653
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3111
; LENGTH: 603
; TYPE: DNA
; ORGANISM: Alloiococcus otitidis
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7)..(600)
US-10-501-282-3111

Alignment Scores:
Pred. No.: 80.3 Length: 603
Score: 51.00 Matches: 9
Percent Similarity: 66.7% Conservative: 1
Best Local Similarity: 60.0% Mismatches: 5
Query Match: 58.6% Indels: 0
DB: 0

SWOP-018-SEQ1 (1-15) x US-10-501-282-3111 (1-603)

Qy 1 TytSerGlyProSerGlyAlaArgArgArgAsnCysTyrGlu 15
Db 418 TATAGTGGACAAAAGCTCAGCAAGCGCACCGCAATGCTATCAA 374

RESULT 14
US-10-128-714-2252
; Sequence 2252, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wendi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2252
; LENGTH: 855
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-2252

Alignment Scores:
Pred. No.: 114 Length: 855
Score: 51.00 Matches: 9
Percent Similarity: 90.0% Conservative: 0
Best Local Similarity: 90.0% Mismatches: 1
Query Match: 58.6% Indels: 0
DB: 5 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-128-714-2252 (1-855)

Qy 4 ProProSerGlyAlaArgArgArgAsnCys 13
Db 497 CCACCGAGTGGTGGAGAGGAGGACTGC 526

RESULT 15
US-10-128-714-7252
; Sequence 7252, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wendi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7252
```

```

; LENGTH: 855
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-7252
Alignment Scores:
Pred. No.: 114 Length: 855
Score: 51.00 Matches: 9
Percent Similarity: 90.0% Conservative: 0
Best Local Similarity: 90.0% Mismatches: 1
Query Match: 58.6% Indels: 0
DB: 5 Gaps: 0

```

SWOP-018-SEQ1 (1-15) x US-10-128-714-7252 (1-855)

```

Qy 4 ProProSerGlyAlaArgArgAsnCys 13
Db 497 CCACCGAGTGGTGGAGAGGAGGAACTGC 526

```

RESULT 16

```

US-10-128-714-1252
; Sequence 1252, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1252
; LENGTH: 908
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-1252

```

```

Alignment Scores:
Pred. No.: 121 Length: 908
Score: 51.00 Matches: 9
Percent Similarity: 90.0% Conservative: 0
Best Local Similarity: 90.0% Mismatches: 1
Query Match: 58.6% Indels: 0
DB: 5 Gaps: 0

```

SWOP-018-SEQ1 (1-15) x US-10-128-714-1252 (1-908)

```

Qy 4 ProProSerGlyAlaArgArgAsnCys 13
Db 497 CCACCGAGTGGTGGAGAGGAGGAACTGC 526

```

```

RESULT 17
US-10-128-714-6252
; Sequence 6252, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1252
; LENGTH: 908
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-1252

```

```

Alignment Scores:
Pred. No.: 121 Length: 908
Score: 51.00 Matches: 9
Percent Similarity: 90.0% Conservative: 0
Best Local Similarity: 90.0% Mismatches: 1
Query Match: 58.6% Indels: 0
DB: 5 Gaps: 0

```

```

SWOP-018-SEQ1 (1-15) x US-10-128-714-1252 (1-908)
Qy 4 ProProSerGlyAlaArgArgAsnCys 13
Db 497 CCACCGAGTGGTGGAGAGGAGGAACTGC 526

```

```

RESULT 17
US-10-128-714-6252
; Sequence 6252, Application US/10128714
; Publication No. US20030119013A1
; GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1252
; LENGTH: 908
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-1252

```

```

; APPLICANT: Hu, Wenqi
; APPLICANT: Tishkoff, Daniel
; APPLICANT: Zamudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sebastien M
; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; NUMBER OF SEQ ID NOS: 8603
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6252
; LENGTH: 908
; TYPE: DNA
; ORGANISM: Aspergillus fumigatus
US-10-128-714-6252

```

```

Alignment Scores:
Pred. No.: 121 Length: 908
Score: 51.00 Matches: 9
Percent Similarity: 90.0% Conservative: 0
Best Local Similarity: 90.0% Mismatches: 1
Query Match: 58.6% Indels: 0
DB: 5 Gaps: 0

```

SWOP-018-SEQ1 (1-15) x US-10-128-714-6252 (1-908)

```

Qy 4 ProProSerGlyAlaArgArgAsnCys 13
Db 497 CCACCGAGTGGTGGAGAGGAGGAACTGC 526

```

```

RESULT 18
US-10-680-860A-76/c
; Sequence 76, Application US/10680860A
; Publication No. US20050202528A1
; GENERAL INFORMATION:
; APPLICANT: BLONDELET-ROUAULT, Marie-Helene
; APPLICANT: DOMINGUEZ, Helene
; APPLICANT: DARBON-RONGERE, Emmanuelle
; APPLICANT: GERBAUD, Claude
; APPLICANT: GONDRAN, Anne
; APPLICANT: KARRAY, Fatma
; APPLICANT: LACROIX, Patricia
; APPLICANT: OESTREICHER-MERMET-BOUVIER, Nathalie
; APPLICANT: PERNODET, Jean-Luc
; APPLICANT: TUPHILE, Karine
; TITLE OF INVENTION: POLYPEPTIDES INVOLVED IN THE BIOSYNTHESIS OF SPIRAMYCINS, NUCLEO
; TITLE OF INVENTION: SEQUENCE ENCODING THESE POLYPEPTIDES AND APPLICATIONS THEREOF
; FILE REFERENCE: FR2002/0028 US NP
; CURRENT APPLICATION NUMBER: US/10/680,860A
; CURRENT FILING DATE: 2003-10-07
; PRIOR APPLICATION NUMBER: FR 0212489
; PRIOR FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: FR 0302439
; PRIOR FILING DATE: 2003-02-27
; PRIOR APPLICATION NUMBER: US 60/493,490
; PRIOR FILING DATE: 2003-08-07
; NUMBER OF SEQ ID NOS: 161
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 76
; LENGTH: 1233

```

TYPE: DNA  
ORGANISM: Streptomyces ambifaciens  
NAME/KEY: CDS  
LOCATION: (1)..(1233)  
US-10-680-860A-76

Alignment Scores:  
Pred. No.: 164 Length: 1233  
Score: 51.00 Matches: 8  
Percent Similarity: 83.3% Conservative: 2  
Best Local Similarity: 66.7% Mismatches: 2  
Query Match: 58.6% Indels: 0  
DB: 9 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-680-860A-76 (1-1233)

QY 3 GlyProSerGlyAlaArgArgAenCysTyr 14  
DB 292 GGTCCACCGCGGCGGACGGCGGACCTTGCCAT 257

RESULT 19

US-10-450-763-7794  
Sequence 7794, Application US/10450763  
Publication No. US20050196754A1  
GENERAL INFORMATION:  
APPLICANT: Hyseq, Inc  
TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
FILE REFERENCE: 790CIP3/US  
CURRENT APPLICATION NUMBER: US/10/450,763  
CURRENT FILING DATE: 2003-06-11  
PRIOR APPLICATION NUMBER: PCT/US01/08631  
PRIOR FILING DATE: 2001-03-30  
PRIOR APPLICATION NUMBER: 09/540,217  
PRIOR FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: 09/649,167  
PRIOR FILING DATE: 2000-08-23  
NUMBER OF SEQ ID NOS: 60736  
SOFTWARE: Custom  
SEQ ID NO 7794  
LENGTH: 1865  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: SIMILAR  
LOCATION: (27)..(284)  
OTHER INFORMATION: 60% homologous to Homo sapiens SRB7, accession number  
OTHER INFORMATION: U46837, Smith-Waterman Score=218.  
US-10-450-763-7794

Alignment Scores:  
Pred. No.: 247 Length: 1865  
Score: 51.00 Matches: 8  
Percent Similarity: 73.3% Conservative: 3  
Best Local Similarity: 53.3% Mismatches: 4  
Query Match: 58.6% Indels: 0  
DB: 9 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-450-763-7794 (1-1865)

QY 1 TyrSerGlyProSerGlyAlaArgArgAenCysTyrGlu 15  
DB 459 TTCAGTGGGATACCATGTGGCGCTTGAGAAAGAACTGTTTGAG 503

RESULT 20

US-10-437-963-48056/c  
Sequence 48056, Application US/10437963  
Publication No. US20040123343A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei

APPLICANT: Wu, Wei  
APPLICANT: Boukharov, Andrey A.  
APPLICANT: Barbazuk, Brad  
APPLICANT: Li, Ping  
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53221)B  
CURRENT APPLICATION NUMBER: US/10/437,963  
CURRENT FILING DATE: 2003-05-14  
NUMBER OF SEQ ID NOS: 204966  
SEQ ID NO 48056  
LENGTH: 2328  
TYPE: DNA  
ORGANISM: Oryza sativa  
FEATURE:  
OTHER INFORMATION: Clone ID: PAT\_MRT4530\_50768C.1  
US-10-437-963-48056

Alignment Scores:  
Pred. No.: 308 Length: 2328  
Score: 51.00 Matches: 9  
Percent Similarity: 75.0% Conservative: 0  
Best Local Similarity: 75.0% Mismatches: 3  
Query Match: 58.6% Indels: 0  
DB: 7 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-437-963-48056 (1-2328)

QY 4 ProProSerGlyAlaArgArgAenCysTyrGlu 15  
DB 194 CCTCCATCCGCCCGCGGAGAGGAACTGCATAGAA 159

RESULT 21

US-10-128-714-252  
Sequence 252, Application US/10128714  
Publication No. US20030119013A1  
GENERAL INFORMATION:  
APPLICANT: Jiang, Bo  
APPLICANT: Hu, Wengqi  
APPLICANT: Tishkoff, Daniel  
APPLICANT: Zamudio, Carlos  
APPLICANT: Eroskin, Alexey M  
APPLICANT: Lemieux, Sebastien M  
TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and  
TITLE OF INVENTION: Methods of Use  
FILE REFERENCE: 10182-018-999  
CURRENT APPLICATION NUMBER: US/10/128,714  
CURRENT FILING DATE: 2002-04-23  
PRIOR APPLICATION NUMBER: US 60/285,697  
PRIOR FILING DATE: 2001-04-23  
PRIOR APPLICATION NUMBER: US 60/287,066  
PRIOR FILING DATE: 2001-04-27  
PRIOR APPLICATION NUMBER: US 60/295,890  
PRIOR FILING DATE: 2001-06-05  
PRIOR APPLICATION NUMBER: US 60/303,899  
PRIOR FILING DATE: 2001-07-09  
PRIOR APPLICATION NUMBER: US 60/316,362  
PRIOR FILING DATE: 2001-08-31  
NUMBER OF SEQ ID NOS: 8603  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 252  
LENGTH: 2908  
TYPE: DNA  
ORGANISM: Aspergillus fumigatus  
US-10-128-714-252

Alignment Scores:  
Pred. No.: 384 Length: 2908  
Score: 51.00 Matches: 9  
Percent Similarity: 90.0% Conservative: 0  
Best Local Similarity: 90.0% Mismatches: 1  
Query Match: 58.6% Indels: 0  
DB: 5 Gaps: 0

[illegible]

Sequence 6651, Application US/10501282  
Publication No. US20050203280A1  
GENERAL INFORMATION:  
APPLICANT: MCMICHAEL, JOHN CALHOUN  
APPLICANT: ZAGURSKY, ROBERT JOHN  
APPLICANT: RUSSELL, DAVID PARRISH  
APPLICANT: FLETCHER, LEAH DIANE  
TITLE OF INVENTION: ALLOIOCOCCUS OTITIDIS OPEN READING FRAMES (ORFS) ENCODING  
FILE REFERENCE: AM100780 L2  
CURRENT APPLICATION NUMBER: US/10/501,282  
CURRENT FILING DATE: 2004-07-09  
PRIOR APPLICATION NUMBER: 60/333,777  
PRIOR FILING DATE: 2001-11-29  
PRIOR APPLICATION NUMBER: 60/426,742  
PRIOR FILING DATE: 2002-11-18  
PRIOR APPLICATION NUMBER: PCT/US02/36123  
PRIOR FILING DATE: 2002-11-25  
NUMBER OF SEQ ID NOS: 6653  
SOFTWARE: PatentIn version 3.2  
SEQ ID NO 6651  
LENGTH: 1754382  
TYPE: DNA  
ORGANISM: Alloiooccus otitidis  
US-10-501-282-6651

Alignment Scores:  
Pred. No.: 2.23e+05 Length: 1754382  
Score: 51.00 Matches: 9  
Percent Similarity: 66.7% Conservative: 1  
Best Local Similarity: 60.0% Mismatches: 5  
Query Match: 58.6% Indels: 0  
DB: 9 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-501-282-6651 (1-1754382)

Qy 1 TySserGlyProSerGlyAlaArgArgAsnCysTyrGlu 15  
Db 810246 TATAGTGGACAAAAGCTCAGCAAGCAGCCGCAATGCTATCAA 810202

RESULT 26  
US-10-305-720-285  
Sequence 285, Application US/10305720  
Publication No. US20040010136A1  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice K.; Seilhamer, Jeffrey J.  
TITLE OF INVENTION: Composition for the Detection of Signaling Pathway Gene Expression  
FILE REFERENCE: PA-0002-1 CON  
CURRENT APPLICATION NUMBER: US/10/305,720  
CURRENT FILING DATE: 2002-11-26  
PRIOR APPLICATION NUMBER: 09/016,434  
PRIOR FILING DATE: 1998-01-30  
NUMBER OF SEQ ID NOS: 1490  
SOFTWARE: PERL Program  
SEQ ID NO 285  
LENGTH: 202  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc feature  
OTHER INFORMATION: Incyte ID No. US20040010136A1 17233064  
US-10-305-720-285

Alignment Scores:  
Pred. No.: 39.6 Length: 202  
Score: 50.00 Matches: 8  
Percent Similarity: 81.8% Conservative: 1  
Best Local Similarity: 72.7% Mismatches: 2  
Query Match: 57.5% Indels: 0  
DB: 6 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-305-720-285 (1-202)

Qy 3 GlyProProSerGlyAlaArgArgArgAsnCys 13  
Db 132 GGGCCACCTACAGTTTGGAGGAGGAGACTGC 164

RESULT 27  
US-10-425-115-53450  
Sequence 53450, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 53450  
LENGTH: 356  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_148748C.1  
US-10-425-115-53450

Alignment Scores:  
Pred. No.: 69.6 Length: 356  
Score: 50.00 Matches: 8  
Percent Similarity: 81.8% Conservative: 1  
Best Local Similarity: 72.7% Mismatches: 2  
Query Match: 57.5% Indels: 0  
DB: 8 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-425-115-53450 (1-356)

Qy 3 GlyProProSerGlyAlaArgArgArgAsnCys 13  
Db 37 GGGCCGCCACCTGGCTCAGCCGCCCTACCTGT 69

RESULT 28  
US-10-425-115-112349  
Sequence 112349, Application US/10425115  
Publication No. US20040214272A1  
GENERAL INFORMATION:  
APPLICANT: La Rosa, Thomas J.  
APPLICANT: Kovalic, David K.  
APPLICANT: Zhou, Yihua  
APPLICANT: Cao, Yongwei  
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
FILE REFERENCE: 38-21(53222)B  
CURRENT APPLICATION NUMBER: US/10/425,115  
CURRENT FILING DATE: 2003-04-28  
NUMBER OF SEQ ID NOS: 369326  
SEQ ID NO 112349  
LENGTH: 400  
TYPE: DNA  
ORGANISM: Zea mays  
FEATURE:  
OTHER INFORMATION: Clone ID: MRT4577\_33954C.1  
US-10-425-115-112349

Alignment Scores:  
Pred. No.: 78.2 Length: 400  
Score: 50.00 Matches: 8  
Percent Similarity: 69.2% Conservative: 1  
Best Local Similarity: 61.5% Mismatches: 4  
Query Match: 57.5% Indels: 0  
DB: 8 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-425-115-112349 (1-400)

```
QY 1 TyrSerGlyProSerGlyAlaArgArgAenCys 13
Db 163 TATGGAGGTACACACAGGGCTCCAGACGACGATGC 201

RESULT 29
US-09-925-065A-84486
; Sequence 84486, Application US/09925065A
; Publication No. US20050228172A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 84486
; LENGTH: 611
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-84486

Alignment Scores:
Pred. No.: 119 Length: 611
Score: 50.00 Matches: 9
Percent Similarity: 73.3% Conservative: 2
Best Local Similarity: 60.0% Mismatches: 4
Query Match: 57.5% Indels: 0
DB: Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-925-065A-84486 (1-611)
QY 1 TyrSerGlyProSerGlyAlaArgArgAenCysTyrGlu 15
Db 169 TACACAGGCCACCTAAGCTGCTTTAGAACCTTTCTGCTATGAA 213

RESULT 30
US-10-437-963-65811
; Sequence 65811, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 65811
; LENGTH: 754
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_66822C.1

US-10-437-963-65811
Alignment Scores:
Pred. No.: 147 Length: 754
Score: 50.00 Matches: 8
Percent Similarity: 90.9% Conservative: 2
Best Local Similarity: 72.7% Mismatches: 1
Query Match: 57.5% Indels: 0
DB: Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-437-963-65811 (1-754)
QY 4 ProProSerGlyAlaArgArgAenCysTyr 14
Db 446 CCACCCACGGGGCGCGCGGGCGGACTGTACT 478

RESULT 31
US-10-425-115-75153
; Sequence 75153, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 75153
; LENGTH: 768
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_168570C.1
US-10-425-115-75153

Alignment Scores:
Pred. No.: 150 Length: 768
Score: 50.00 Matches: 9
Percent Similarity: 75.0% Conservative: 0
Best Local Similarity: 75.0% Mismatches: 3
Query Match: 57.5% Indels: 0
DB: Gaps: 0

SWOP-018-SEQ1 (1-15) x US-10-425-115-75153 (1-768)
QY 3 GlyProSerGlyAlaArgArgAenCysTyr 14
Db 268 GGCCCGCCATCGTTGCTGCGCGGCGGCTGCTAT 303

RESULT 32
US-11-019-829-11
; Sequence 11, Application US/11019829
; Publication No. US20050136465A1
; GENERAL INFORMATION:
; APPLICANT: Hoffmann-La Roche Inc.
; TITLE OF INVENTION: Novel targets for obesity from subcutaneous fat
; FILE REFERENCE: 22304
; CURRENT APPLICATION NUMBER: US/11/019,829
; CURRENT FILING DATE: 2004-12-22
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 2472
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: atp-binding cassette, sub-family c, member 10 (ABCC10)
; LOCATION: (1)..(2472)
; OTHER INFORMATION: accession No.s: AL133613.1, Hs.55879
```

US-11-019-829-11	US-10-335-053-96	US-11-019-829-11 (1-2472)	US-10-335-053-96
Alignment Scores:	Alignment Scores:	Alignment Scores:	Alignment Scores:
Pred. No.: 2472	Pred. No.: 980	Pred. No.: 478	Pred. No.: 5084
Score: 50.00	Score: 50.00	Score: 50.00	Score: 50.00
Percent Similarity: 81.8%	Percent Similarity: 81.8%	Percent Similarity: 81.8%	Percent Similarity: 81.8%
Best Local Similarity: 72.7%	Best Local Similarity: 72.7%	Best Local Similarity: 72.7%	Best Local Similarity: 72.7%
Query Match: 57.5%	Query Match: 57.5%	Query Match: 57.5%	Query Match: 57.5%
DB: 0	DB: 0	DB: 0	DB: 0
SWOP-018-SEQ1 (1-15) x US-11-019-829-11 (1-2472)	SWOP-018-SEQ1 (1-15) x US-10-335-053-96 (1-5084)	SWOP-018-SEQ1 (1-15) x US-11-019-829-11 (1-2472)	SWOP-018-SEQ1 (1-15) x US-10-335-053-96 (1-5084)
QY 3 GlyProProSerGlyAlaArgArgAsnCys 13	QY 3 GlyProProSerGlyAlaArgArgAsnCys 13	QY 3 GlyProProSerGlyAlaArgArgAsnCys 13	QY 3 GlyProProSerGlyAlaArgArgAsnCys 13
DB 988 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 1020	DB 3633 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 3665	DB 988 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 1020	DB 3633 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 3665
RESULT 33	RESULT 35	RESULT 33	RESULT 35
US-10-723-860-376	US-10-723-860-5073	US-10-723-860-376	US-10-723-860-5073
Sequence 376, Application US/10723860	Sequence 5073, Application US/10723860	Sequence 376, Application US/10723860	Sequence 5073, Application US/10723860
Publication No. US20040253606A1	Publication No. US20040253606A1	Publication No. US20040253606A1	Publication No. US20040253606A1
GENERAL INFORMATION:	GENERAL INFORMATION:	GENERAL INFORMATION:	GENERAL INFORMATION:
APPLICANT: Aziz, Natasha	APPLICANT: Aziz, Natasha	APPLICANT: Aziz, Natasha	APPLICANT: Aziz, Natasha
APPLICANT: Ginsburg, Wendy M.	APPLICANT: Ginsburg, Wendy M.	APPLICANT: Ginsburg, Wendy M.	APPLICANT: Ginsburg, Wendy M.
APPLICANT: Zlotnik, Albert	APPLICANT: Zlotnik, Albert	APPLICANT: Zlotnik, Albert	APPLICANT: Zlotnik, Albert
TITLE OF INVENTION: Methods for Diagnosis of Soft Tissue Sarcoma, Compositions & Methods for Screening for Soft Tissue Sarcoma Modulators	TITLE OF INVENTION: Methods for Diagnosis of Soft Tissue Sarcoma, Compositions & Methods for Screening for Soft Tissue Sarcoma Modulators	TITLE OF INVENTION: Methods for Diagnosis of Soft Tissue Sarcoma, Compositions & Methods for Screening for Soft Tissue Sarcoma Modulators	TITLE OF INVENTION: Methods for Diagnosis of Soft Tissue Sarcoma, Compositions & Methods for Screening for Soft Tissue Sarcoma Modulators
FILE REFERENCE: 05882.0193.NPUS01	FILE REFERENCE: 05882.0193.NPUS01	FILE REFERENCE: 05882.0193.NPUS01	FILE REFERENCE: 05882.0193.NPUS01
CURRENT APPLICATION NUMBER: 60/429,739	CURRENT APPLICATION NUMBER: 60/429,739	CURRENT APPLICATION NUMBER: 60/429,739	CURRENT APPLICATION NUMBER: 60/429,739
PRIOR FILING DATE: 2003-11-26	PRIOR FILING DATE: 2003-11-26	PRIOR FILING DATE: 2003-11-26	PRIOR FILING DATE: 2003-11-26
PRIOR APPLICATION NUMBER: 60/429,739	PRIOR APPLICATION NUMBER: 60/429,739	PRIOR APPLICATION NUMBER: 60/429,739	PRIOR APPLICATION NUMBER: 60/429,739
NUMBER OF SEQ ID NOS: 8393	NUMBER OF SEQ ID NOS: 8393	NUMBER OF SEQ ID NOS: 8393	NUMBER OF SEQ ID NOS: 8393
SOFTWARE: Patent in version 3.2	SOFTWARE: Patent in version 3.2	SOFTWARE: Patent in version 3.2	SOFTWARE: Patent in version 3.2
SEQ ID NO 376	SEQ ID NO 5073	SEQ ID NO 376	SEQ ID NO 5073
TYPE: DNA	TYPE: DNA	TYPE: DNA	TYPE: DNA
ORGANISM: Homo sapiens	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens	ORGANISM: Homo sapiens
US-10-723-860-376	US-10-723-860-5073	US-10-723-860-376	US-10-723-860-5073
Alignment Scores:	Alignment Scores:	Alignment Scores:	Alignment Scores:
Pred. No.: 5023	Pred. No.: 986	Pred. No.: 5023	Pred. No.: 986
Score: 50.00	Score: 50.00	Score: 50.00	Score: 50.00
Percent Similarity: 81.8%	Percent Similarity: 81.8%	Percent Similarity: 81.8%	Percent Similarity: 81.8%
Best Local Similarity: 72.7%	Best Local Similarity: 72.7%	Best Local Similarity: 72.7%	Best Local Similarity: 72.7%
Query Match: 57.5%	Query Match: 57.5%	Query Match: 57.5%	Query Match: 57.5%
DB: 0	DB: 0	DB: 0	DB: 0
SWOP-018-SEQ1 (1-15) x US-10-723-860-376 (1-5023)	SWOP-018-SEQ1 (1-15) x US-10-723-860-5073 (1-5117)	SWOP-018-SEQ1 (1-15) x US-10-723-860-376 (1-5023)	SWOP-018-SEQ1 (1-15) x US-10-723-860-5073 (1-5117)
QY 3 GlyProProSerGlyAlaArgArgAsnCys 13	QY 3 GlyProProSerGlyAlaArgArgAsnCys 13	QY 3 GlyProProSerGlyAlaArgArgAsnCys 13	QY 3 GlyProProSerGlyAlaArgArgAsnCys 13
DB 3577 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 3609	DB 3633 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 3665	DB 3577 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 3609	DB 3633 GGGCCACCTACAGGTTTGAGGAGGAGAACCTGC 3665
RESULT 34	RESULT 36	RESULT 34	RESULT 36
US-10-335-053-96	US-10-887-553A-1140	US-10-335-053-96	US-10-887-553A-1140
Sequence 96, Application US/10335053	Sequence 1140, Application US/10887553A	Sequence 96, Application US/10335053	Sequence 1140, Application US/10887553A
Publication No. US20040241653A1	Publication No. US20050085436A1	Publication No. US20040241653A1	Publication No. US20050085436A1
GENERAL INFORMATION:	GENERAL INFORMATION:	GENERAL INFORMATION:	GENERAL INFORMATION:
APPLICANT: Quark Biotech, Inc.	APPLICANT: Garza, Dan	APPLICANT: Quark Biotech, Inc.	APPLICANT: Garza, Dan
TITLE OF INVENTION: Methods for Identifying marker genes for cancer	TITLE OF INVENTION: Method to treat conditions associated with insulin signalling dysregulation	TITLE OF INVENTION: Methods for Identifying marker genes for cancer	TITLE OF INVENTION: Method to treat conditions associated with insulin signalling dysregulation
FILE REFERENCE: 68733-A; 070/US1	FILE REFERENCE: 4-33262	FILE REFERENCE: 68733-A; 070/US1	FILE REFERENCE: 4-33262
CURRENT APPLICATION NUMBER: US/10/335,053	CURRENT APPLICATION NUMBER: US/10/887,553A	CURRENT APPLICATION NUMBER: US/10/335,053	CURRENT APPLICATION NUMBER: US/10/887,

Alignment Scores: 987 Length: 5118  
Pred. No.: 50.00 Matches: 8  
Score: 81.8% Conservatives: 1  
Percent Similarity: 72.7% Mismatches: 2  
Best Local Similarity: 57.5% Indels: 0  
Query Match: 9 Gaps: 0  
DB:

SWOP-018-SEQ1 (1-15) x US-10-887-553A-1140 (1-5118)

Qy 3 GlyProSerGlyAlaArgArgAanCys 13  
Db 3637 GGGCCACCTACAGTTTGAGGAGGAGAACTGC 3669

## RESULT 37

US-10-211-028-12/c  
; Sequence 12, Application US/10211028  
; Publication No. US20050027113A1  
; GENERAL INFORMATION:  
; APPLICANT: CUBIST PHARMACEUTICALS, INC.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING TO THE DAPTOMYCIN  
; FILE REFERENCE: CUB-12 PCT CIP  
; CURRENT APPLICATION NUMBER: US/10/211,028  
; PRIOR FILING DATE: 2002-07-31  
; PRIOR APPLICATION NUMBER: PCT/US02/24310  
; PRIOR FILING DATE: 2002-10-25  
; PRIOR APPLICATION NUMBER: PCT/US01/32354  
; PRIOR FILING DATE: 2001-10-17  
; PRIOR APPLICATION NUMBER: 60/310,385  
; PRIOR FILING DATE: 2001-08-06  
; PRIOR APPLICATION NUMBER: 60/379,866  
; PRIOR FILING DATE: 2002-05-10  
; NUMBER OF SEQ ID NOS: 170  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 12  
; LENGTH: 22017  
; TYPE: DNA  
; ORGANISM: Streptomyces roseosporus  
US-10-211-028-12

Alignment Scores: 4.21e+03 Length: 22017  
Pred. No.: 50.00 Matches: 9  
Score: 75.0% Conservatives: 0  
Percent Similarity: 75.0% Mismatches: 3  
Best Local Similarity: 57.5% Indels: 0  
Query Match: 8 Gaps: 0  
DB:

SWOP-018-SEQ1 (1-15) x US-10-211-028-12 (1-22017)

Qy 2 SerGlyProSerGlyAlaArgArgAanCys 13  
Db 19042 TCAGGACCGCACGGGGCGGCGTCCGCCCATGT 19007

## RESULT 38

US-09-997-722-4/c  
; Sequence 4, Application US/09997722  
; Publication No. US20040072154A1  
; GENERAL INFORMATION:  
; APPLICANT: Morris, David  
; APPLICANT: Engelhard, Eric  
; TITLE OF INVENTION: NOVEL COMPOSITIONS AND METHODS FOR CANCER  
; FILE REFERENCE: A-71171/RMS/DCF  
; CURRENT APPLICATION NUMBER: US/09/997,722  
; CURRENT FILING DATE: 2001-11-30  
; PRIOR APPLICATION NUMBER: US 09/747,377  
; PRIOR FILING DATE: 2000-12-22  
; PRIOR APPLICATION NUMBER: US 09/798,586  
; PRIOR FILING DATE: 2001-03-02  
; NUMBER OF SEQ ID NOS: 301  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 4

LENGTH: 52302  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (11301)..(11320)  
; OTHER INFORMATION: "n" at positions 11301 through 11320 can be any base.  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (29267)..(29286)  
; OTHER INFORMATION: "n" at positions 29267 through 29286 can be any base.  
US-09-997-722-4

Alignment Scores: 9.96e+03 Length: 52302  
Pred. No.: 50.00 Matches: 8  
Score: 80.0% Conservatives: 1  
Percent Similarity: 90.0% Mismatches: 1  
Best Local Similarity: 57.5% Indels: 0  
Query Match: 3 Gaps: 0  
DB:

SWOP-018-SEQ1 (1-15) x US-09-997-722-4 (1-52302)

Qy 4 ProProSerGlyAlaArgArgAanCys 13  
Db 44944 CCACCTAGTGGACTTCGACGAGGAACTGC 44915

## RESULT 39

US-10-211-028-1/c  
; Sequence 1, Application US/10211028  
; Publication No. US20050027113A1  
; GENERAL INFORMATION:  
; APPLICANT: CUBIST PHARMACEUTICALS, INC.  
; TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING TO THE DAPTOMYCIN  
; FILE REFERENCE: CUB-12 PCT CIP  
; CURRENT APPLICATION NUMBER: US/10/211,028  
; CURRENT FILING DATE: 2002-07-31  
; PRIOR APPLICATION NUMBER: PCT/US02/24310  
; PRIOR FILING DATE: 2002-10-25  
; PRIOR APPLICATION NUMBER: PCT/US01/32354  
; PRIOR FILING DATE: 2001-10-17  
; PRIOR APPLICATION NUMBER: 60/310,385  
; PRIOR FILING DATE: 2001-08-06  
; PRIOR APPLICATION NUMBER: 60/379,866  
; PRIOR FILING DATE: 2002-05-10  
; NUMBER OF SEQ ID NOS: 170  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 90597  
; TYPE: DNA  
; ORGANISM: Streptomyces roseosporus  
US-10-211-028-1

Alignment Scores: 1.72e+04 Length: 90597  
Pred. No.: 50.00 Matches: 9  
Score: 75.0% Conservatives: 0  
Percent Similarity: 75.0% Mismatches: 3  
Best Local Similarity: 57.5% Indels: 0  
Query Match: 8 Gaps: 0  
DB:

SWOP-018-SEQ1 (1-15) x US-10-211-028-1 (1-90597)

Qy 2 SerGlyProProSerGlyAlaArgArgAanCys 13  
Db 75085 TCAGGACCGCACGGGGCGGCGTCCGCCCATGT 75050

## RESULT 40

US-10-424-599-129806/c  
; Sequence 129806, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:



```

; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 129806
; LENGTH: 426
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_88222C.1
US-10-424-599-129806

```

```

Alignment Scores:
Pred. No.:      122      Length:      426
Score:          49.00    Matches:      8
Percent Similarity: 83.3%  Conservative: 2
Best Local Similarity: 66.7%  Mismatches: 2
Query Match:     56.3%    Indels:      0
DB:              7       Gaps:        0

```

SWOP-018-SEQ1 (1-15) x US-10-424-599-129806 (1-426)

```

Qy      4  ProProSerGlyAlaArgArgAsnCysTyrGlu 15
         |||||
Db      226  CCCCCATCCGGCATACGCCGAGAGAGTTCACGCA 191

```

Search completed: February 13, 2006, 18:01:41  
Job time : 874 secs

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```

: RESULT 1
: US-08-313-181-1
: ; Sequence 1, Application US/08313181
: ; Patent No. 5681735
: ; GENERAL INFORMATION:
: ; APPLICANT: Emerson, Charles P.
: ; APPLICANT: Goldhamer, David J.
: ; TITLE OF INVENTION: Transcription Control Element for
: ; TITLE OF INVENTION: Increasing Gene Expression in Myoblasts

```

NUMBER OF REPLICATES: 1  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dann, Dorfman, Herrell and Skillman  
STREET: 1601 Market Street, Suite 720  
CITY: Philadelphia  
STATE: PA  
COUNTRY: USA  
ZIP: 19103  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/313,181  
FILING DATE: 07-OCT-1994  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Reed, Janet E.  
REGISTRATION NUMBER: 36,252  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (215) 563-4100  
TELEFAX: (215) 563-4044  
INFORMATION FOR SEO ID NO: 1

## SUMMARIES

Result No.	Score	Query		Length	DB	ID	Description
		Match					
1	87	100.0	4086	2	US-08-313-181-1		Sequence 1, Appli
2	83	72.4	1785	6	PT-US94-12912-1		Sequence 1, Appli
3	63	72.4	3636	2	US-07-753-520B-1		Sequence 1, Appli
4	52	59.8	432	3	US-09-252-991A-2087		Sequence 2087, Ap
C 5	52	59.8	987	3	US-09-252-991A-1803		Sequence 1803, Ap
C 6	52	59.8	1272	3	US-09-252-991A-1876		Sequence 1876, Ap
C 7	51	58.6	303	3	US-09-489-039A-6289		Sequence 6289, Ap
C 8	51	58.6	1656	3	US-09-902-540-4534		Sequence 4534, Ap
C 9	51	58.6	10835	3	US-09-902-540-1031		Sequence 1031, Ap

```
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4086 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: not relevant
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Homo sapiens
;
US-08-313-181-1
Alignment Scores:
Pred. No.: 0.00331 Length: 4086
Score: 87.00 Matches: 15
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 100.0% Indels: 0
DB: 2 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-08-313-181-1 (1-4086)
Qy 1 TyrsGlyProProSerGlyAlaArgArgAsnCyTyrGlu 15
Db 2399 TACAGCGGCCCCCGAGCGCGCGCGCGGAACTGCTAGAA 2443

RESULT 2
PCT-US94-12912-1
; Sequence 1, Application PC/TUS9412912
; GENERAL INFORMATION:
; APPLICANT: UNIVERSITY OF SOUTHERN CALIFORNIA
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: TRANSDUCTION OF CELLS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: C/O Robbins, Berliner & Carson
; STREET: 201 North Figueroa Street, Fifth Floor
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90012
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/12912
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Spitals, John P.
; REGISTRATION NUMBER: 29,215
; REFERENCE/DOCKET NUMBER: 1920-341
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 977-1001
; TELEFAX: (213) 977-1003
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1785 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; PCT-US94-12912-1
Alignment Scores:
Pred. No.: 4.52 Length: 1785
Score: 63.00 Matches: 11
Percent Similarity: 86.7% Conservative: 2
Best Local Similarity: 73.3% Mismatches: 2
Query Match: 72.4% Indels: 0
DB: 6 Gaps: 0
```

```
SWOP-018-SEQ1 (1-15) x PCT-US94-12912-1 (1-1785)
Qy 1 TyrsGlyProProSerGlyAlaArgArgAsnCyTyrGlu 15
Db 793 TACAGCGGCCCCCGAGCGCGCGCGGAAATGGCTACGAC 837

RESULT 3
US-07-753-520B-1
; Sequence 1, Application US/07753520B
; Patent No. 5352595
; GENERAL INFORMATION:
; APPLICANT: Tadscott, J.; Weintraub, H.M.; Palmer, T.D.
; TITLE OF INVENTION: "MYOD REGULATORY REGION"
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Christensen, O'Connor, Johnson and Kindness
; STREET: 2800 Pacific First Center, 1420 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98101-2347
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette-5.25 inch, 1.2Mb storage
; COMPUTER: IBM PC/386 Compatible
; OPERATING SYSTEM: MS-DOS 4.01
; SOFTWARE: Word for Windows-t
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/753,520B
; FILING DATE: 19910903
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: none
; FILING DATE: none
; ATTORNEY/AGENT INFORMATION:
; NAME: Sundamo, John, S.
; REGISTRATION NUMBER: 34,446
; REFERENCE/DOCKET NUMBER: FPCR-1-5789
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 1-206-682-8100; 1-206-224-0727 (direct)
; TELEFAX: 1-206-224-0779
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3636 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; DESCRIPTION: myoD Genomic; proximal regulatory region myoD gene, Figures 1A, 1B,
; US-07-753-520B-1
Alignment Scores:
Pred. No.: 9.77 Length: 3636
Score: 63.00 Matches: 11
Percent Similarity: 86.7% Conservative: 2
Best Local Similarity: 73.3% Mismatches: 2
Query Match: 72.4% Indels: 0
DB: 2 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-07-753-520B-1 (1-3636)
Qy 1 TyrsGlyProProSerGlyAlaArgArgAsnCyTyrGlu 15
Db 2133 TACAGCGGCCCCCGAGCGCGCGCGGAAATGGCTACGAC 2177

RESULT 4
US-09-252-991A-2087
; Sequence 2087, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
```

```

, TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
, FILE REFERENCE: 107196.136
, CURRENT APPLICATION NUMBER: US/09/352,991A
, PRIORITY DATE: 1999-02-18
, PRIOR FILING DATE: 1999-02-18
, CURRENT APPLICATION NUMBER: US 60/074,788
, PRIORITY DATE: 1998-02-18
, PRIOR FILING DATE: 1998-02-18
, PRIOR APPLICATION NUMBER: US 60/094,190
, PRIOR FILING DATE: 1998-07-27
, NUMBER OF SEQ ID NOS: 3312
, SEQ ID NO 2087
, LENGTH: 432
, TYPE: DNA
, ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-2087

```

Alignment Scores:		
Pred. No.:	40	432
Score:	52.00	
Percent Similarity:	90.9%	Matches: 8
Best Local Similarity:	72.7%	Conservative: 2
Query Match:	59.8%	Mismatches: 1
DB:	3	Indels: 0
		Gaps: 0

SWOP-018-SE01 (1-15) X US-09-252-991A-2087 (1-432)

Qy 3 GlyProProSerGlyAlaArgArgArgAsnCys 13  
|||  
Db 192 GGGCCGCCGAACGGATCGCGTGCAGGCGATGC 224

```

RESULT 5
US-09-252-991A-1803/c
; Sequence 1803, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 1803
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1803

```

Alignment Scores:		
Pred. No.:	98	987
Score:	52.00	Length:
Percent Similarity:	90.9%	Matches:
Best Local Similarity:	72.7%	Conservative:
Query Match:	59.8%	Mismatches:
DB:	3	Indels:
		Gaps:
		0

SWQP-018-SEQ1 (1-15) x US-09-252-991A-1803 (1-987)

QY 3 GlyProSerGlyAlaArgArgArgAanCys 13  
|||  
db 809 GGSCGCGCGAACCGATCGCGCTCGCAGGGCATGC 777

```

RESULT 6
US 09-252-991A-1876/C
; Sequence 1875 Application US/0925252991A
; Sequence No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS

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```

, FILE REFERENCE: 107196.136
, CURRENT APPLICATION NUMBER: US/09/252,991A
, CURRENT FILING DATE: 1999-02-18
, PRIOR APPLICATION NUMBER: US 60/074,788
, PRIOR FILING DATE: 1998-02-18
, PRIOR APPLICATION NUMBER: US 60/094,190
, PRIOR FILING DATE: 1998-07-27
, NUMBER OF SEQ ID NOS: 33142
, SEQ ID NO 1876
, LENGTH: 1272
, TYPE: DNA
, ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-1876

```

Alignment Scores:		
Pred. No.:	129	Length: 1272
Score:	52.00	Matches: 8
Percent Similarity:	90.9%	Conservative: 2
Best Local Similarity:	72.7%	Mismatches: 1
Query Match:	59.8%	Indels: 0
DB:	3	Gaps: 0

SWOP-018-SE01 (1-15) x US-09-252-991A-1876 (1-1272)

QY            3 GlyProPserGlyAlaArgArgArgAsnCys 13  
             |||||:::||:::||::|||  
nb          760 GGGCCGCCAACGGATCGCTGCAGGCGATGC 728

RESULT 7  
US-09-489-039A-6289  
; Sequence 6289, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; TITLE OF INVENTION: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 2709.2004001  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 1432  
; SEQ ID NO 6289  
; LENGTH: 303  
; TYPE: DNA  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-6289

Alignment Scores:	38.2	Length:	303
Pred. No.:	Score:	Matches:	9
	51.00	Conservative:	0
Percent Similarity:	81.8%	Mismatches:	2
Best Local Similarity:	81.8%	Indels:	0
Query Match:	58.6%	Gaps:	0
na	3		

SWOP-018-SEQ1 (1-15) x US-09-489-039A-6289 (1-303)

QY 1 TyrSerGlyProSerGlyAlaArgArg 11  
nb 188 TAAATCAAGCCGCGCCATTCACCGAATTAGGCTCGA 221

RESULT 8  
US-09-902-540-4534/c  
; Sequence 4534, Application US/09902540  
; Patent No. 6833447  
; GENERAL INFORMATION:  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Wiegand, Roger C.  
; TITLE OF INVENTION: Myxococcus xanthus  
; FILE REFERENCE: 38-10(15849)B

Tue Feb 14 16:03:28 2006

swop-018-seq1.rn1

```
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 4534
; LENGTH: 1656
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-4534

Alignment Scores:
Pred. No.: 241 Length: 1656
Score: 51.00 Matches: 8
Percent Similarity: 76.9% Conservative: 2
Best Local Similarity: 61.5% Mismatches: 3
Query Match: 58.6% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-4534 (1-1656)
QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13
Db 439 CATCCAGGCCACCGCTGCGCTAGAGACGCGTTGT 401

RESULT 9
US-09-902-540-1031/c
; Sequence 1031, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 1031
; LENGTH: 10835
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-1031

Alignment Scores:
Pred. No.: 1,85e+03 Length: 10835
Score: 51.00 Matches: 8
Percent Similarity: 76.9% Conservative: 2
Best Local Similarity: 61.5% Mismatches: 3
Query Match: 58.6% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-1031 (1-10835)
QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCys 13
Db 3980 CATCCAGGCCACCGCTGCGCTAGAGACGCGTTGT 3942

RESULT 10
US-09-016-434-285
; Sequence 285, Application US/09016434
; Patent No. 6500938
; GENERAL INFORMATION:
; APPLICANT: Janice Au-Young
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF SIGNALING
; TITLE OF INVENTION: PATHWAY GENE EXPRESSION
; NUMBER OF SEQUENCES: 1490
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
```

```
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/016,434
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0002 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 285:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 202 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: BLADNOT06
; CLONE: 1723064
US-09-016-434-285

Alignment Scores:
Pred. No.: 34.5 Length: 202
Score: 50.00 Matches: 8
Percent Similarity: 81.8% Conservative: 1
Best Local Similarity: 72.7% Mismatches: 2
Query Match: 57.5% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-016-434-285 (1-202)
QY 3 GlyProSerGlyAlaArgArgAsnCys 13
Db 132 GGGCCACCTACAGTTTGGAGGAGAACCTGC 164

RESULT 11
US-09-902-540-3430/c
; Sequence 3430, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 3430
; LENGTH: 783
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-3430

Alignment Scores:
```

Pred. No.: 150 Length: 783  
Score: 50.00 Matches: 9  
Percent Similarity: 100.0% Conservative: 1  
Best Local Similarity: 90.0% Mismatches: 0  
Query Match: 57.5% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-3430 (1-783)

Qy 2 SerGlyProSerGlyAlaArgArg 11

Db 91 ACCGGTCCACCTTCTGGTGTCTGGCGACGC 62

## RESULT 12

US-09-902-540-1162  
; Sequence 1162, Application US/09902540

; Patent No. 6833447

; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Wiegand, Roger C.

; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

; FILE REFERENCE: 38-10(15849)B

; CURRENT APPLICATION NUMBER: US/09/902,540

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: 60/217,883

; PRIOR FILING DATE: 2000-07-10

; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 1162

; LENGTH: 18192

; TYPE: DNA

; ORGANISM: Myxococcus xanthus

US-09-902-540-1162

Alignment Scores:  
Pred. No.: 4.55e+03 Length: 18192  
Score: 50.00 Matches: 9  
Percent Similarity: 100.0% Conservative: 1  
Best Local Similarity: 90.0% Mismatches: 0  
Query Match: 57.5% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-1162 (1-18192)

Qy 2 SerGlyProSerGlyAlaArgArg 11

Db 16821 ACCGGTCCACCTTCTGGTGTCTGGCGACGC 16850

## RESULT 13

US-09-949-016-4090/c  
; Sequence 4090, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CLO01307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4090

; LENGTH: 1348

; TYPE: DNA

; ORGANISM: Human

US-09-949-016-4090

Alignment Scores:  
Pred. No.: 379 Length: 1348  
Score: 49.00 Matches: 8  
Percent Similarity: 81.8% Conservative: 1  
Best Local Similarity: 72.7% Mismatches: 2  
Query Match: 56.3% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-949-016-4090 (1-1348)

Qy 3 GlyProSerGlyAlaArgArgAenCys 13

Db 493 GGACCTCCGTCCAGGTGCTCGAGGAGAGTTGC 461

## RESULT 14

US-09-902-540-9457/c

; Sequence 9457, Application US/09902540

; Patent No. 6833447

; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Wiegand, Roger C.

; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

; FILE REFERENCE: 38-10(15849)B

; CURRENT APPLICATION NUMBER: US/09/902,540

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: 60/217,883

; PRIOR FILING DATE: 2000-07-10

; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 9457

; LENGTH: 1449

; TYPE: DNA

; ORGANISM: Myxococcus xanthus

US-09-902-540-9457

Alignment Scores:  
Pred. No.: 410 Length: 1449  
Score: 49.00 Matches: 9  
Percent Similarity: 100.0% Conservative: 0  
Best Local Similarity: 100.0% Mismatches: 0  
Query Match: 56.3% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-9457 (1-1449)

Qy 3 GlyProSerGlyAlaArgArg 11

Db 199 GGTCCTCCGTCTCGAGCCAGAGACGG 173

## RESULT 15

US-09-902-540-1007

; Sequence 1007, Application US/09902540

; Patent No. 6833447

; GENERAL INFORMATION:

; APPLICANT: Goldman, Barry S.

; APPLICANT: Hinkle, Gregory J.

; APPLICANT: Slater, Steven C.

; APPLICANT: Wiegand, Roger C.

; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof

; FILE REFERENCE: 38-10(15849)B

; CURRENT APPLICATION NUMBER: US/09/902,540

; CURRENT FILING DATE: 2001-07-10

; PRIOR APPLICATION NUMBER: 60/217,883

; PRIOR FILING DATE: 2000-07-10

; NUMBER OF SEQ ID NOS: 16825

; SEQ ID NO 1007

; LENGTH: 13466

; TYPE: DNA

; ORGANISM: Myxococcus xanthus

US-09-902-540-1007

```
Alignment Scores:
Pred. No.: 4.6e+03 Length: 13466
Score: 49.00 Matches: 9
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 56.3% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-1007 (1-13466)

Qy 3 GlyProProSerGlyAlaArgArgCys 11
Db 2126 GGTCTCTCCGCTCTGGAGCCAGAGAGCGG 2152

RESULT 16
US-09-949-016-15832/c
; Sequence 15832, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15832
; LENGTH: 17723
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(17723)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15832

Alignment Scores:
Pred. No.: 6.2e+03 Length: 17723
Score: 49.00 Matches: 8
Percent Similarity: 81.8% Conservative: 1
Best Local Similarity: 72.7% Mismatches: 2
Query Match: 56.3% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-949-016-15832 (1-17723)

Qy 3 GlyProProSerGlyAlaArgArgCys 13
Db 8565 GGACCTCCGCTCTGAGGAGGAGGAGTGC 8533

RESULT 17
US-08-470-179-186/c
; Sequence 186, Application US/08470179
; Patent No. 5645994
; GENERAL INFORMATION:
; APPLICANT: Huang Ph.D, Wai Mun
; TITLE OF INVENTION: Method and Compositions for
; IDENTIFICATION OF SPECIES IN A SAMPLE
; NUMBER OF SEQUENCES: 207
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Trask, Britt and Rossa
; STREET: P.O. Box 2550
; CITY: Salt Lake City
; STATE: Utah
; COUNTRY: USA
; ZIP: 84110
```

```
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/470,179
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sweigert Ph.D, Susan E.
; REGISTRATION NUMBER: 36,289
; REFERENCE/DOCKET NUMBER: 2601
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 801-532-1922
; TELEFAX: 801-531-9168
; INFORMATION FOR SEQ ID NO: 186:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 423 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: not relevant
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Thermus aquaticus
US-08-470-179-186

Alignment Scores:
Pred. No.: 151 Length: 423
Score: 48.00 Matches: 8
Percent Similarity: 72.7% Conservative: 0
Best Local Similarity: 72.7% Mismatches: 3
Query Match: 55.2% Indels: 0
DB: 2 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-08-470-179-186 (1-423)

Qy 3 GlyProProSerGlyAlaArgArgCys 13
Db 58 GGACCCCTCTCTGTTAGGCGGAGAGGATGC 26

RESULT 18
US-09-902-540-7412/c
; Sequence 7412, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 7412
; LENGTH: 1209
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-7412

Alignment Scores:
Pred. No.: 472 Length: 1209
Score: 48.00 Matches: 9
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 55.2% Indels: 0
DB: 3 Gaps: 0
```



SWOP-018-SEQ1 (1-15) x US-09-902-540-7412 (1-1209)

QY 2 SerGlyProSerGlyAlaArgArg 10  
DB 1096 TCAGGTCCTCTCTCTGTCGCGTCGC 1070

## RESULT 19

US-09-328-352-5/c  
; Sequence 5, Application US/09328352  
; Patent No. 6562958  
; GENERAL INFORMATION:  
; APPLICANT: Gary L. Breton et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ACINETOBACTER  
; FILE REFERENCE: GTC99-03PA  
; CURRENT APPLICATION NUMBER: US/09/328,352  
; CURRENT FILING DATE: 1999-06-04  
; NUMBER OF SEQ ID NOS: 8252  
; SEQ ID NO 5  
; LENGTH: 1299  
; TYPE: DNA  
; ORGANISM: Acinetobacter baumannii  
US-09-328-352-5

Alignment Scores: 511 Length: 1299  
Pred. No.: 48.00 Matches: 8  
Score: 90.0% Conservative: 1  
Best Local Similarity: 80.0% Mismatches: 1  
Query Match: 55.2% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SRQ1 (1-15) x US-09-328-352-5 (1-1299)

QY 4 ProProSerGlyAlaArgArgAsnCys 13  
DB 751 CCGCATCAGCGCGCGACGACGTCATGC 722

## RESULT 20

US-09-428-589-1/c  
; Sequence 1, Application US/09428589  
; Patent No. 6403102  
; GENERAL INFORMATION:  
; APPLICANT: Murdin, Andrew  
; TITLE OF INVENTION: CHLAMYDIA ANTIGENS AND CORRESPONDING DNA FRAGMENTS AND  
; FILE REFERENCE: 19721-008  
; CURRENT APPLICATION NUMBER: US/09/428,589  
; EARLIER FILING DATE: 1999-10-27  
; EARLIER FILING DATE: 1998-10-29  
; EARLIER FILING DATE: 1998-10-29  
; EARLIER FILING DATE: 1999-05-07  
; NUMBER OF SEQ ID NOS: 4  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 1400  
; TYPE: DNA  
; ORGANISM: Chlamydia pneumoniae  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (101)..(1273)  
US-09-428-589-1

Alignment Scores: 554 Length: 1400  
Pred. No.: 48.00 Matches: 8  
Score: 71.4% Conservative: 2  
Best Local Similarity: 57.1% Mismatches: 4  
Query Match: 55.2% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SRQ1 (1-15) x US-09-428-589-1 (1-1400)

QY 1 TyrSerGlyProSerGlyAlaArgArgAsnCysTyr 14  
DB 324 TATAGCGCAGTCCAGCGTAGGAGGAGGAGCTGTTT 283

## RESULT 21

US-08-427-497E-5/c  
; Sequence 5, Application US/08427497E  
; Patent No. 5969124  
; GENERAL INFORMATION:  
; APPLICANT: Lemmon, Vance  
; TITLE OF INVENTION: A Method for Characterizing the  
; TITLE OF INVENTION: Nucleotide Sequence of L1CAM and  
; Patent No. 5969124  
; TITLE OF INVENTION: the Nucleotide Sequence  
; NUMBER OF SEQUENCES: 44  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Fay, Sharpe, Beall, Fagan,  
; STREET: 1100 Superior Avenue  
; CITY: Cleveland  
; STATE: Ohio  
; COUNTRY: U.S.A.  
; ZIP: 44114-2518  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb  
; MEDIUM TYPE: storable  
; COMPUTER: Compaq Prolinea 5100e  
; OPERATING SYSTEM: DOS 5.0  
; SOFTWARE: ASCII  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/427,497E  
; FILING DATE: April 24, 1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 07/904,991  
; FILING DATE: June 26, 1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Minnich, Richard J.  
; REGISTRATION NUMBER: 24,175  
; REFERENCE/DOCKET NUMBER: CWR 2 149-3-1  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (216) 861-5582  
; TELEFAX: (216) 241-1666  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1794  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: nucleic acids  
; HYPOTHETICAL: irrelevant  
; ANTI-SENSE: no  
; ORIGINAL SOURCE:  
; ORGANISM: homo sapiens  
; INDIVIDUAL ISOLATE: 17-18 week fetus  
; IMMEDIATE SOURCE:  
; LIBRARY: Stratagene cDNA Library 936206  
; CLONE: 17  
; PUBLICATION INFORMATION:  
; AUTHORS: Hlavin, Mary Louise  
; TITLE: Molecular structure and functional testing of  
; TITLE: human L1CAM: an interspecies comparison.  
; JOURNAL: GENOMICS  
; VOLUME: 11  
; ISSUE: 416-423  
; PAGES: 416-423  
; DATE: 1991  
; RELEVANT RESIDUES IN SEQ ID NO: 2731 to 4503

Tue Feb 14 16:03:28 2006

swop-018-seq1.rn1

```
US-08-427-497E-5
Alignment Scores: 725 Length: 1794
Pred. No.: 48.00 Matches: 8
Score: 83.3% Conservative: 2
Percent Similarity: 66.7% Mismatches: 2
Best Local Similarity: 55.2% Indels: 0
Query Match: 2 Gaps: 0
DB:

SWOP-018-SEQ1 (1-15) x US-08-427-497E-5 (1-1794)
QY 2 SerGlyProSerGlyAlaArgArgAsnCys 13
Db 418 ACTGGCCCTCCTGGGAGCCAGGAGACGACTGT 383

RESULT 22
US-08-427-497E-4/c
; Sequence 4, Application US/08427497E
; Patent No. 5969124
; GENERAL INFORMATION:
; APPLICANT: Lemmon, Vance
; TITLE OF INVENTION: A Method for Characterizing the
; TITLE OF INVENTION: Nucleotide Sequence of LiCAM and
; Patent No. 5969124
; TITLE OF INVENTION: the Nucleotide Sequence
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fay, Sharpe, Beall, Fagan,
; ADDRESS: Minnich & McKee
; STREET: 1100 Superior Avenue
; STREET: Suite 700
; CITY: Cleveland
; STATE: Ohio
; COUNTRY: U.S.A.
; ZIP: 44114-2518
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; MEDIUM TYPE: storable
; COMPUTER: Compaq Prolinea 5100e
; OPERATING SYSTEM: DOS 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/427,497E
; FILING DATE: April 24, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: 07/904,991
; FILING DATE: June 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Minnich, Richard J.
; REGISTRATION NUMBER: 24,175
; REFERENCE/DOCKET NUMBER: CWR 2 149-3-1
; TELEPHONE: (216) 861-5582
; TELEFAX: (216) 241-1666
; TELEX: (216) 980162
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2600
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: nucleic acids
; HYPOTHETICAL: irrelevant
; ANTI-SENSE: no
; ORIGINAL SOURCE:
; ORGANISM: homo sapiens
; INDIVIDUAL ISOLATE: 17-18 week fetus
; IMMEDIATE SOURCE:
; LIBRARY: Stratagene cDNA Library 936206
; CLONE: 4

PUBLICATION INFORMATION:
; AUTHORS: Hlavin, Mary Louise
; AUTHORS: Lemmon, Vance
; TITLE: Molecular structure and functional testing of
; TITLE: human LiCAM: an interspecies comparison.
; JOURNAL: GENOMICS
; VOLUME: 11
; ISSUE:
; PAGES: 416-423
; DATE: 1991
; RELEVANT RESIDUES IN SEQ ID NO: 1108 to 3708
US-08-427-497E-4
Alignment Scores: 1.08e+03 Length: 2600
Pred. No.: 48.00 Matches: 8
Score: 83.3% Conservative: 2
Percent Similarity: 66.7% Mismatches: 2
Best Local Similarity: 55.2% Indels: 0
Query Match: 2 Gaps: 0
DB:

SWOP-018-SEQ1 (1-15) x US-08-427-497E-4 (1-2600)
QY 2 SerGlyProSerGlyAlaArgArgAsnCys 13
Db 2020 ACTGGCCCTCCTGGGAGCCAGGAGACGACTGT 1985

RESULT 23
US-08-427-497E-3/c
; Sequence 3, Application US/08427497E
; Patent No. 5969124
; GENERAL INFORMATION:
; APPLICANT: Lemmon, Vance
; TITLE OF INVENTION: A Method for Characterizing the
; TITLE OF INVENTION: Nucleotide Sequence of LiCAM and
; Patent No. 5969124
; TITLE OF INVENTION: the Nucleotide Sequence
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fay, Sharpe, Beall, Fagan,
; ADDRESS: Minnich & McKee
; STREET: 1100 Superior Avenue
; STREET: Suite 700
; CITY: Cleveland
; STATE: Ohio
; COUNTRY: U.S.A.
; ZIP: 44114-2518
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; MEDIUM TYPE: storable
; COMPUTER: Compaq Prolinea 5100e
; OPERATING SYSTEM: DOS 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/427,497E
; FILING DATE: April 24, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: 07/904,991
; FILING DATE: June 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Minnich, Richard J.
; REGISTRATION NUMBER: 24,175
; REFERENCE/DOCKET NUMBER: CWR 2 149-3-1
; TELEPHONE: (216) 861-5582
; TELEFAX: (216) 241-1666
; TELEX: (216) 980162
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3189
; TYPE: nucleic acid
```

```
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: nucleic acids
; HYPOTHETICAL: irrelevant
; ANTI-SENSE: no
; ORIGINAL SOURCE:
; ORGANISM: homo sapiens
; INDIVIDUAL ISOLATE: 17-18 week fetus
; IMMEDIATE SOURCE:
; LIBRARY: Stratagene cDNA Library 936206
; CLONE: 3.1
; PUBLICATION INFORMATION:
; AUTHORS: Hlavin, Mary Louise
; TITLE: Molecular structure and functional testing of
; TITLE: human LiCAM: an interspecies comparison.
; JOURNAL: GENOMICS
; VOLUME: 11
; ISSUE: 11
; PAGES: 416-423
; DATE: 1991
; RELEVANT RESIDUES IN SEQ ID NO: 548 to 3736
;
US-08-427-497E-3
Alignment Scores:
Pred. No.: 1.35e+03 Length: 3189
Score: 48.00 Matches: 8
Percent Similarity: 83.3% Conservative: 2
Best Local Similarity: 66.7% Mismatches: 2
Query Match: 55.2% Indels: 0
DB: 2 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-08-427-497E-3 (1-3189)

Qy 2 SerGlyProSerGlyAlaArgArgAsnGly 13
Db 2580 ACTGGCCCTCTTCCGAGGAGTGTCCAGAAACAGCACTGT 2545

RESULT 24
US-09-949-016-12325/c
; Sequence 12325, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12325
; LENGTH: 3508
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(3508)
; OTHER INFORMATION: n = A,T,C or G
;
US-09-949-016-12325
Alignment Scores:
Pred. No.: 1.5e+03 Length: 3508
Score: 48.00 Matches: 6
Percent Similarity: 84.6% Conservative: 5
Best Local Similarity: 46.2% Mismatches: 2
Query Match: 55.2% Indels: 0

DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-949-016-12325 (1-3508)

Qy 2 SerGlyProSerGlyAlaArgArgAsnGly 14
Db 2700 GCAGGTCTCTCCAGGAGTGTCCAGAAACAGCACTGTAT 2662

RESULT 25
US-08-341-843B-1/c
; Sequence 1, Application US/08341843B
; Patent No. 5872225
; GENERAL INFORMATION:
; APPLICANT: Lemmon, Vance
; TITLE OF INVENTION: A Method for Characterizing the
; TITLE OF INVENTION: Nucleotide Sequence of LiCAM and
; Patent No. 5872225
; TITLE OF INVENTION: the Nucleotide Sequence
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fay, Sharpe, Beall, Fagan,
; ADDRESSEE: Minnich & McKee
; STREET: 1100 Superior Avenue
; STREET: Suite 700
; CITY: Cleveland
; STATE: Ohio
; COUNTRY: U.S.A.
; ZIP: 44114-2518
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; MEDIUM TYPE: storable
; COMPUTER: Compaq Prolinea 5100e
; OPERATING SYSTEM: DOS 5.0
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/341,843B
; FILING DATE: No. 5872225ember 18, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/904,991
; FILING DATE: June 26, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Minnich, Richard J.
; REGISTRATION NUMBER: 24,175
; REFERENCE/DOCKET NUMBER: CWR 2 149-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (216) 861-5582
; TELEFAX: (216) 241-1666
; TELEX: (216) 980162
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3774
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: irrelevant
; ANTI-SENSE: no
; ORIGINAL SOURCE:
; ORGANISM: Homo Sapiens
; INDIVIDUAL ISOLATE: 17-18 week fetus
; IMMEDIATE SOURCE:
; LIBRARY: Stratagene cDNA Library 936206
; CLONE: Synthesis of 4 clones
; PUBLICATION INFORMATION:
; AUTHORS: Hlavin, Mary Louise
; TITLE: Molecular structure and functional
; TITLE: testing of human LiCAM: an
; TITLE: interspecies comparison.
; JOURNAL: GENOMICS
; VOLUME: 11
```

—

```
TELEX: (216) 980162
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 3774
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: nucleic acids
HYPOTHETICAL: irrelevant
ANTI-SENSE: no
ORIGINAL SOURCE:
ORGANISM: Homo Sapiens
INDIVIDUAL ISOLATE: 17-18 week fetus
IMMEDIATE SOURCE:
LIBRARY: Stratagene cDNA Library 936206
CLONE: synthesis of 4 clones
PUBLICATION INFORMATION:
AUTHORS: Hlavin, Mary Louise
AUTHORS: Lemmon, Vance
TITLE: Molecular structure and functional testing of
TITLE: human LiCAM: an interspecies comparison.
JOURNAL: GENOMICS
VOLUME: 11
ISSUE:
PAGES: 416-423
DATE: 1991
RELEVANT RESIDUES IN SEQ ID NO: 1 to 3774
US-08-427-497E-2

Alignment Scores:
Pred. No.: 1.62e+03 Length: 3774
Score: 48.00 Matches: 8
Percent Similarity: 83.3% Conservative: 2
Best Local Similarity: 66.7% Mismatches: 2
Query Match: 55.2% Indels: 0
DB: 2 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-08-427-497E-2 (1-3774)
QY 2 SerGlyProSerGlyAlaArgArgAsnCys 13
Db 3127 ACTGGCCCTCTTGGGGACCCAGGAGACGACTGT 3092

RESULT 28
US-08-506-296B-13/c
; Sequence 13, Application US/08506296B
; Patent No. 6313265
; GENERAL INFORMATION:
; APPLICANT: Phillips, Greg
; APPLICANT: Cunningham, Bruce A.
; APPLICANT: Crossin, Kathryn L.
; TITLE OF INVENTION: NEURITE OUTGROWTH-PROMOTING POLYPEPTIDES
; TITLE OF INVENTION: CONTAINING FIBRONECTIN TYPE III REPEATS AND METHODS OF USE
; NUMBER OF SEQUENCES: 77
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The Scripps Research Institute
; STREET: 10550 No. 6313265th Torrey Pines Road, TPC-8
; CITY: La Jolla
; STATE: California
; COUNTRY: U.S.
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/506.296B
; FILING DATE: 24-JUL-1995
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Fitting, Thomas
; REGISTRATION NUMBER: 34,163
```

```
REFERENCE/DOCKET NUMBER: TSRI 488.0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 554-2937
TELEFAX: (619) 554-6312
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 3888 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 12...3773
US-08-506-296B-13

Alignment Scores:
Pred. No.: 1.68e+03 Length: 3888
Score: 48.00 Matches: 8
Percent Similarity: 83.3% Conservative: 2
Best Local Similarity: 66.7% Mismatches: 2
Query Match: 55.2% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-08-506-296B-13 (1-3888)
QY 2 SerGlyProSerGlyAlaArgArgAsnCys 13
Db 3138 ACTGGCCCTCTTGGGGACCCAGGAGACGACTGT 3103

RESULT 29
US-09-515-534A-1
; Sequence 1, Application US/09515534A
; Patent No. 6699692
; GENERAL INFORMATION:
; APPLICANT: Biomm, Inc.
; APPLICANT: Astolfi, Spartaco F.
; APPLICANT: de Lima, Beatriz D.
; APPLICANT: Thiemann, Josef E.
; APPLICANT: Tunes de Sousa, Heloisa R.
; APPLICANT: Vilela, Luciano
; TITLE OF INVENTION: VECTOR FOR EXPRESSION OF HETEROLOGOUS PROTEIN AND METHODS FOR EX
; TITLE OF INVENTION: RECOMBINANT PROTEIN AND FOR PURIFYING ISOLATED RECOMBINANT INSU
; FILE REFERENCE: 790612-2007
; CURRENT APPLICATION NUMBER: US/09/515,534A
; CURRENT FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: Patent in version 3.0
; SEQ ID NO 1
; LENGTH: 4781
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-09-515-534A-1

Alignment Scores:
Pred. No.: 2.1e+03 Length: 4781
Score: 48.00 Matches: 8
Percent Similarity: 90.0% Conservative: 1
Best Local Similarity: 80.0% Mismatches: 1
Query Match: 55.2% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-515-534A-1 (1-4781)
QY 4 ProSerGlyAlaArgArgAsnCys 13
Db 2130 CCGCCATCAGGGCGGCCGACGCGGTCTATGC 2159

RESULT 30
US-09-902-540-713
; Sequence 713, Application US/09902540
```

```
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 713
; LENGTH: 6119
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; US-09-902-540-713

Alignment Scores:
Pred. No.: 2.74e+03 Length: 6119
Score: 48.00 Matches: 9
Percent Similarity: 100.0% Conservative: 0
Best Local Similarity: 100.0% Mismatches: 0
Query Match: 55.2% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-713 (1-6119)
Qy 2 SerGlyProSerGlyAlaArg 10
Db 5022 TCAGGTCCTCCCTCTCGTGCGGTCCG 5048

RESULT 31
US-09-902-540-827/c
; Sequence 827, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 827
; LENGTH: 7280
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(7280)
; OTHER INFORMATION: unsure at all n locations
; US-09-902-540-827

Alignment Scores:
Pred. No.: 3.31e+03 Length: 7280
Score: 48.00 Matches: 10
Percent Similarity: 71.4% Conservative: 0
Best Local Similarity: 71.4% Mismatches: 4
Query Match: 55.2% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-902-540-827 (1-7280)
Qy 2 SerGlyProSerGlyAlaArgArgAsnCyseTyrGlu 15
Db 2808 TCCGGCTCACCTCCGCGCGCGATGAGAACTCGGTGGAG 2767
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RESULT 32
US-08-886-967-1
; Sequence 1, Application US/0886967
; Patent No. 6068993
; GENERAL INFORMATION:
; APPLICANT: ASTOLFI, SPARTACO
; APPLICANT: DE LIMA, BEATRIZ D.
; APPLICANT: THIEMANN, JOSEF E.
; APPLICANT: TUNES DE SOUSA, HELOISA R.
; APPLICANT: VILELA, LUCIANO
; TITLE OF INVENTION: VECTOR FOR EXPRESSION OF HETEROLOGOUS
; TITLE OF INVENTION: PROTEIN AND METHODS FOR EXTRACTING RECOMBINANT PROTEIN AND
; TITLE OF INVENTION: FOR PURIFYING ISOLATED RECOMBINANT INSULIN
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FROMMER LAWRENCE & HAUG LLP
; STREET: 745 FIFTH AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10151
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/886,967
; FILING DATE: 02-JUL-1997
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: HAUG, EDGAR H.
; REGISTRATION NUMBER: 29,309
; REFERENCE/DOCKET NUMBER: 540519-2003
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-588-0800
; TELEFAX: 212-588-0500
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 9562 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-886-967-1

Alignment Scores:
Pred. No.: 4.45e+03 Length: 9562
Score: 48.00 Matches: 8
Percent Similarity: 90.0% Conservative: 1
Best Local Similarity: 80.0% Mismatches: 1
Query Match: 55.2% Indels: 0
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-08-886-967-1 (1-9562)
Qy 4 ProProSerGlyAlaArgArgAsnCys 13
Db 4210 CCGCCATCAGGCGCGGACGCGTCATGC 4239

RESULT 33
US-09-306-949-1
; Sequence 1, Application US/09306949
; Patent No. 6281329
; GENERAL INFORMATION:
; APPLICANT: ASTOLFI, SPARTACO
; APPLICANT: DE LIMA, BEATRIZ D.
; APPLICANT: THIEMANN, JOSEF E.
; APPLICANT: TUNES DE SOUSA, HELOISA R.
; APPLICANT: VILELA, LUCIANO
; TITLE OF INVENTION: VECTOR FOR EXPRESSION OF HETEROLOGOUS
; TITLE OF INVENTION: PROTEIN AND METHODS FOR EXTRACTING RECOMBINANT PROTEIN AND
; TITLE OF INVENTION: FOR PURIFYING ISOLATED RECOMBINANT INSULIN
```

NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FROMMER LAWRENCE & HAUG LLP  
STREET: 745 FIFTH AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10151  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/306,949  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/886,967  
FILING DATE: 02-JUL-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: HAUG, EDGAR H.  
REGISTRATION NUMBER: 29,309  
REFERENCE/DOCKET NUMBER: 540519-2003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-588-0800  
TELEFAX: 212-588-0500  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9562 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-306-949-1  
Alignment Scores:  
Pred. No.: 4.45e+03 Length: 9562  
Score: 48.00 Matches: 8  
Percent Similarity: 90.0% Conservative: 1  
Best Local Similarity: 80.0% Mismatches: 1  
Query Match: 55.2% Indels: 0  
DB: 3 Gaps: 0  
SWOP-018-SRQ1 (1-15) x US-09-306-949-1 (1-9562)  
QY 4 ProProSerGlyAlaArgArgAsnCys 13  
Db 4210 CCGCCATCAGGGCGGCGACGCGTCATGC 4239  
RESULT 34  
US-09-307-217-1  
Sequence 1, Application US/09307217  
Patent No. 6509452  
GENERAL INFORMATION:  
APPLICANT: ASTOLFI, SPARTACO  
DE LIMA, BEATRIZ D.  
THIEMANN, JOSEF E.  
TUNES DE SOUSA, HELOISA R.  
VILELA, VILCIANO  
TITLE OF INVENTION: VECTOR FOR EXPRESSION OF HETEROLOGOUS  
PROTEIN AND METHODS FOR EXTRACTING RECOMBINANT PROTEIN AND  
FOR PURIFYING ISOLATED RECOMBINANT INSULIN  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FROMMER LAWRENCE & HAUG LLP  
STREET: 745 FIFTH AVENUE  
CITY: NEW YORK  
STATE: NEW YORK  
COUNTRY: USA  
ZIP: 10151  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/307,217  
FILING DATE: 07-May-1999  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/08/886,967  
FILING DATE: 02-JUL-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: HAUG, EDGAR H.  
REGISTRATION NUMBER: 29,309  
REFERENCE/DOCKET NUMBER: 540519-2003  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 212-588-0800  
TELEFAX: 212-588-0500  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 9562 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-09-307-217-1  
Alignment Scores:  
Pred. No.: 4.45e+03 Length: 9562  
Score: 48.00 Matches: 8  
Percent Similarity: 90.0% Conservative: 1  
Best Local Similarity: 80.0% Mismatches: 1  
Query Match: 55.2% Indels: 0  
DB: 3 Gaps: 0  
SWOP-018-SRQ1 (1-15) x US-09-307-217-1 (1-9562)  
QY 4 ProProSerGlyAlaArgArgAsnCys 13  
Db 4210 CCGCCATCAGGGCGGCGACGCGTCATGC 4239  
RESULT 35  
US-09-938-956-5  
Sequence 5, Application US/09938956  
Patent No. 6818424  
GENERAL INFORMATION:  
APPLICANT: Wang, Siqun  
Deana J.  
APPLICANT: Dicosimo,  
APPLICANT: Koffas, Mattheos  
APPLICANT: Odom, J. Martin  
TITLE OF INVENTION: Production of Monoterpene  
FILE REFERENCE: CL1809 US NA  
CURRENT APPLICATION NUMBER: US/09/938,956  
CURRENT FILING DATE: 2001-08-24  
PRIOR APPLICATION NUMBER: 60/229,907  
PRIOR FILING DATE: 2000-09-0  
PRIOR APPLICATION NUMBER: 60/229,858  
PRIOR FILING DATE: 2000-09-01  
NUMBER OF SEQ ID NOS: 7  
SOFTWARE: Microsoft Office 97  
SEQ ID NO 5  
LENGTH: 11575  
TYPE: DNA  
ORGANISM: Plasmid  
US-09-938-956-5  
Alignment Scores:  
Pred. No.: 5.48e+03 Length: 11575  
Score: 48.00 Matches: 8  
Percent Similarity: 90.0% Conservative: 1  
Best Local Similarity: 80.0% Mismatches: 1  
Query Match: 55.2% Indels: 0  
DB: 3 Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-938-956-5 (1-11575)

QY 4 ProProSerGlyAlaArgArgAsnCys 13  
DB 9936 CCGCCATCAGCGCGGACGACGCGTCACTGC 9965

## RESULT 36

US-09-410-551B-1/c  
; Sequence 1, Application US/09410551B  
; Patent No. 6503737  
; GENERAL INFORMATION:  
; APPLICANT: KOSAN BIOSCIENCES, Inc.  
; APPLICANT: REEVES, CHRISTOPHER  
; APPLICANT: CHU, DANIEL  
; APPLICANT: KHOSLA, CHAITAN  
; APPLICANT: SANTIL, DANIEL  
; APPLICANT: WU, KAI  
; TITLE OF INVENTION: POLYKETIDE SYNTHASE ENZYMES AND RECOMBINANT DNA  
; TITLE OF INVENTION: CONSTRUCTS THEREFOR  
; FILE REFERENCE: 30062-20026.00  
; CURRENT APPLICATION NUMBER: US/09/410,551B  
; CURRENT FILING DATE: 1999-10-01  
; PRIOR APPLICATION NUMBER: US 60/139,650  
; PRIOR FILING DATE: 1999-06-17  
; PRIOR APPLICATION NUMBER: US 60/123,810  
; PRIOR FILING DATE: 1999-03-11  
; PRIOR APPLICATION NUMBER: US 60/102,748  
; PRIOR FILING DATE: 1998-10-02  
; NUMBER OF SEQ ID NOS: 72  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 77536  
; TYPE: DNA  
; ORGANISM: Streptomyces hygroscopicus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (52275)...(71465)  
US-09-410-551B-1

Alignment Scores:  
Pred. No.: 4.27e+04 Length: 77536  
Score: 48.00 Matches: 8  
Percent Similarity: 75.0% Conservative: 1  
Best Local Similarity: 66.7% Mismatches: 3  
Query Match: 55.2% Indels: 0  
DB: Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-410-551B-1 (1-77536)

QY 2 SerGlyProProSerGlyAlaArgArgAsnCys 13  
DB 10954 ACCGGCGCGCGAGTGGGACACGTCGCGGCAACTGC 10919

## RESULT 37

US-09-940-316B-1/c  
; Sequence 1, Application US/09940316B  
; Patent No. 6759536  
; GENERAL INFORMATION:  
; APPLICANT: KOSAN BIOSCIENCES, Inc.  
; APPLICANT: REEVES, CHRISTOPHER  
; APPLICANT: CHU, DANIEL  
; APPLICANT: KHOSLA, CHAITAN  
; APPLICANT: SANTIL, DANIEL  
; APPLICANT: WU, KAI  
; TITLE OF INVENTION: POLYKETIDES ENCODING THE FKBA GENE OF THE FK-520 POLYKETIDE SYNTHASE  
; TITLE OF INVENTION: GENE CLUSTER  
; FILE REFERENCE: 30062-20026.11  
; CURRENT APPLICATION NUMBER: US/09/940,316B  
; CURRENT FILING DATE: 2001-08-27  
; PRIOR APPLICATION NUMBER: 09/410,551  
; PRIOR FILING DATE: 1999-10-01  
; PRIOR APPLICATION NUMBER: US 60/139,650

; PRIOR FILING DATE: 1999-06-17  
; PRIOR APPLICATION NUMBER: US 60/123,810  
; PRIOR FILING DATE: 1999-03-11  
; PRIOR APPLICATION NUMBER: US 60/102,748  
; PRIOR FILING DATE: 1998-10-02  
; NUMBER OF SEQ ID NOS: 72  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 1  
; LENGTH: 77536  
; TYPE: DNA  
; ORGANISM: Streptomyces hygroscopicus  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (52275)...(71465)  
US-09-940-316B-1

Alignment Scores:  
Pred. No.: 4.27e+04 Length: 77536  
Score: 48.00 Matches: 8  
Percent Similarity: 75.0% Conservative: 1  
Best Local Similarity: 66.7% Mismatches: 3  
Query Match: 55.2% Indels: 0  
DB: Gaps: 0

SWOP-018-SEQ1 (1-15) x US-09-940-316B-1 (1-77536)

QY 2 SerGlyProProSerGlyAlaArgArgAsnCys 13  
DB 10954 ACCGGCGCGCGAGTGGGACACGTCGCGGCAACTGC 10919

RESULT 38

US-09-198-452A-1/c  
; Sequence 1, Application US/09198452A  
; Patent No. 6559294  
; GENERAL INFORMATION:  
; APPLICANT: Griffrats, R.  
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection  
; TITLE OF INVENTION: and treatment of infection  
; FILE REFERENCE: 9710-003-999  
; CURRENT APPLICATION NUMBER: US/09/198,452A  
; CURRENT FILING DATE: 1998-11-24  
; NUMBER OF SEQ ID NOS: 6849  
; SEQ ID NO 1  
; LENGTH: 1230025  
; TYPE: DNA  
; ORGANISM: Chlamydia pneumoniae  
; FEATURE:  
; NAME/KEY: misc\_feature  
; LOCATION: (1)..(15000)  
; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature  
; LOCATION: (15001)..(30000)  
; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature  
; LOCATION: (30001)..(45000)  
; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature  
; LOCATION: (45001)..(60000)  
; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature  
; LOCATION: (60001)..(75000)  
; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature  
; LOCATION: (75001)..(90000)  
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; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature  
; LOCATION: (105001)..(120000)  
; OTHER INFORMATION: n=a or c or g or t  
; NAME/KEY: misc\_feature



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LOCATION: (120001)..(135000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (495001)..(510000)
OTHER INFORMATION: n=a or c or g or t
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NAME/KEY: misc feature
LOCATION: (150001)..(165000)
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LOCATION: (405001)..(420000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (420001)..(435000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (435001)..(450000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (450001)..(465000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (465001)..(480000)
OTHER INFORMATION: n=a or c or g or t
NAME/KEY: misc feature
LOCATION: (480001)..(495000)
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**GE**

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 11, 2006, 08:30:23 ; Search time 179 Seconds  
(without alignments)  
35.014 Million cell updates/sec

Title: SWOP-018-SEQ1

Perfect score: 87  
Sequence: 1 YSGPPSGARRNCYE 15

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Published Applications AA Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	87	100.0	320	4	US-10-157-031-401
2	50	57.5	119	4	US-10-425-115-238113
3	50	57.5	129	4	US-10-425-115-297012
4	49	56.3	278	4	US-10-424-599-245359
5	48	55.2	1278	4	US-10-437-963-126355
6	47	54.0	112	4	US-10-425-115-288731
7	47	54.0	122	4	US-10-425-115-218088
8	47	54.0	271	4	US-10-363-616-371
9	47	54.0	291	3	US-09-925-300-968
10	47	54.0	316	4	US-10-437-963-172815
11	46	52.9	259	4	US-10-424-599-170072
12	45	51.7	318	4	US-10-425-115-234457
13	45	51.7	336	4	US-10-425-114-60305
14	45	51.7	1167	4	US-10-282-122A-62618
15	45	51.7	1184	4	US-10-282-122A-64572
16	45	51.7	1184	5	US-10-476-597-140
17	44	50.6	97	4	US-10-425-114-48971
18	44	50.6	103	4	US-10-424-599-203545
19	44	50.6	120	4	US-10-425-115-221321
20	44	50.6	289	4	US-10-425-114-40066
21	43.5	50.0	73	4	US-10-424-599-235980
22	43	49.4	46	4	US-10-424-599-215744
23	43	49.4	94	5	US-10-723-860-2460
24	43	49.4	94	5	US-10-756-149-5369
25	43	49.4	128	4	US-10-424-599-177399
26	43	49.4	155	4	US-10-437-963-109816
27	43	49.4	184	4	US-10-027-806-32

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28 43 49.4 184 4 US-10-034-623-32 Sequence 32, Appl
29 43 49.4 184 4 US-10-027-801-32 Sequence 32, Appl
30 43 49.4 184 4 US-10-029-120-32 Sequence 32, Appl
31 43 49.4 243 5 US-10-726-699-93 Sequence 93, Appl
32 43 49.4 346 3 US-09-988-462-19 Sequence 19, Appl
33 43 49.4 410 3 US-09-963-896-2 Sequence 2, Appl
34 43 49.4 433 4 US-10-425-114-36762 Sequence 36762, A
35 43 49.4 475 5 US-10-450-763-34231 Sequence 34231, A
36 42 48.3 63 4 US-10-425-115-231244 Sequence 231244, A
37 42 48.3 66 3 US-09-864-761-46439 Sequence 46439, A
38 42 48.3 98 4 US-10-437-963-189306 Sequence 189306, A
39 42 48.3 99 4 US-10-425-115-255336 Sequence 255336, A
40 42 48.3 99 5 US-10-644-765-167 Sequence 167, App
41 42 48.3 99 5 US-10-644-765-241 Sequence 241, App
42 42 48.3 101 3 US-09-816-279-4 Sequence 4, Appl
43 42 48.3 106 4 US-10-437-963-172573 Sequence 172573, A
44 42 48.3 106 4 US-10-425-115-213091 Sequence 213091, A
45 42 48.3 112 4 US-10-425-115-275006 Sequence 275006, A

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## ALIGNMENTS

RESULT 1  
US-10-157-031-401  
; Sequence 401, Application US/10157031  
; Publication No. US20030108890A1  
; GENERAL INFORMATION:  
; APPLICANT: Baranova, A. V.  
; APPLICANT: Yankovsky, N. K.  
; APPLICANT: Kozlov, A. P.  
; APPLICANT: Lobachev, A. V.  
; APPLICANT: Krukovskaya, L. L.  
; TITLE OF INVENTION: In silico screening for phenotype-associated expressed sequences  
; FILE REFERENCE: 2760-103  
; CURRENT APPLICATION NUMBER: US/10/157,031  
; CURRENT FILING DATE: 2002-05-30  
; NUMBER OF SEQ ID NOS: 415  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 401  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-157-031-401

Query Match 100.0%; Score 87; DB 4; Length 320;  
Best Local Similarity 100.0%; Pred. No. 3.3e-05;  
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 YSGPPSGARRNCYE 15

Db 213 YSGPPSGARRNCYE 227

## RESULT 2

US-10-425-115-238113  
; Sequence 238113, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 238113  
; LENGTH: 119  
; TYPE: PRT  
; ORGANISM: Zea mays

Tue Feb 14 16:03:27 2006

swop-018-seql.rapbm

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; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_148748C.1.pep
US-10-425-115-238113

Query Match          57.5%; Score 50; DB 4; Length 119;
Best Local Similarity 72.7%; Pred. No. 6.8;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 GPPSGARRRNC 13
Db 13 GPPGSRRTTC 23

RESULT 3
US-10-425-115-297012
; Sequence 297012, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 297012
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(278)
; OTHER INFORMATION: unsure at all Xaa locations
; OTHER INFORMATION: Clone ID: MRT4577_33954C.1.pep
US-10-425-115-297012

Query Match          57.5%; Score 50; DB 4; Length 129;
Best Local Similarity 61.5%; Pred. No. 7.3;
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 YSGPPSGARRRNC 13
Db 51 YGGTPQGSRRRC 63

RESULT 4
US-10-424-599-245359
; Sequence 245359, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 245359
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(278)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_63590C.1.pep
US-10-424-599-245359

Query Match          56.3%; Score 49; DB 4; Length 278;
```

```
Best Local Similarity 66.7%; Pred. No. 22;
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 PPSGARRRNCYE 15
Db 170 PPSGVKIECYE 181

RESULT 5
US-10-437-963-126355
; Sequence 126355, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 126355
; LENGTH: 1278
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1278)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_2890C.1.pep
US-10-437-963-126355

Query Match          55.2%; Score 48; DB 4; Length 1278;
Best Local Similarity 80.0%; Pred. No. 1.4e+02;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 4 PPSGARRRNC 13
Db 12 PPGGARRRRC 21

RESULT 6
US-10-425-115-288731
; Sequence 288731, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 288731
; LENGTH: 112
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(112)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_26413C.1.pep
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US-10-425-115-288731

Query Match 54.0%; Score 47; DB 4; Length 112;  
Best Local Similarity 61.5%; Pred. No. 19;  
Matches 8; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRNCYE 15  
| | | | | : : :  
DB 43 GAPSGGRLHCWE 55

RESULT 7

US-10-425-115-218088  
; Sequence 218088, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 218088  
; LENGTH: 122  
; TYPE: PRT  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MRT4577\_130492C.1.pep  
US-10-425-115-218088

Query Match 54.0%; Score 47; DB 4; Length 122;  
Best Local Similarity 63.6%; Pred. No. 20;  
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 GPPSGARRNC 13  
| | | | : : :  
DB 110 GPPRGKKRQC 120

RESULT 8

US-10-363-616-371  
; Sequence 371, Application US/10363616  
; Publication No. US20040044181A1  
; GENERAL INFORMATION:  
; APPLICANT: Hyseq, Inc  
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES  
; FILE REFERENCE: 21272-113 (793)  
; CURRENT APPLICATION NUMBER: US/10/363,616  
; CURRENT FILING DATE: 2003-03-03  
; PRIOR APPLICATION NUMBER: 09/654,935  
; PRIOR FILING DATE: 2000-09-01  
; NUMBER OF SEQ ID NOS: 490  
; SEQ ID NO 371  
; LENGTH: 271  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-363-616-371

Query Match 54.0%; Score 47; DB 4; Length 271;  
Best Local Similarity 72.7%; Pred. No. 44;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRNC 13  
| | | | : : :  
DB 87 GPPPGVRRRC 97

RESULT 9

US-09-925-300-968

; Sequence 968, Application US/09925300  
; Patent No. US20020151681A1  
; GENERAL INFORMATION:  
; APPLICANT: Craig Rosen,  
; APPLICANT: Steve Ruben  
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies  
; FILE REFERENCE: PA101  
; CURRENT APPLICATION NUMBER: US/09/925,300  
; CURRENT FILING DATE: 2001-08-10  
; PRIOR APPLICATION NUMBER: PCT/US00/05988  
; PRIOR FILING DATE: 2000-03-08  
; PRIOR APPLICATION NUMBER: 60/124,270  
; PRIOR FILING DATE: 1999-03-12  
; NUMBER OF SEQ ID NOS: 1890  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 968  
; LENGTH: 291  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-925-300-968

Query Match 54.0%; Score 47; DB 3; Length 291;  
Best Local Similarity 72.7%; Pred. No. 47;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRNC 13  
| | | | : : :  
DB 107 GPPPGVRRRC 117

RESULT 10

US-10-437-963-172815  
; Sequence 172815, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping  
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 172815  
; LENGTH: 316  
; TYPE: PRT  
; ORGANISM: Oryza sativa  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (1) .(316)  
; OTHER INFORMATION: unsure at all Xaa locations  
; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_70914C.1.pep  
US-10-437-963-172815

Query Match 54.0%; Score 47; DB 4; Length 316;  
Best Local Similarity 61.5%; Pred. No. 50;  
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 YSGPPSGARRNC 13  
: : : : :  
DB 46 FSPPPGRRRC 58

RESULT 11

US-10-424-599-170072  
; Sequence 170072, Application US/10424599

```
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 170072
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_124590C.1.pep
US-10-424-599-170072

Query Match          52.9%; Score 46; DB 4; Length 259;
Best Local Similarity 63.6%; Pred. No. 60;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      4  PPSGARRRNCY 14
Db      78  PPSGGRKNCY 88

RESULT 12
US-10-425-115-234457
; Sequence 234457, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 234457
; LENGTH: 318
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_145410C.1.pep
US-10-425-115-234457

Query Match          51.7%; Score 45; DB 4; Length 318;
Best Local Similarity 70.0%; Pred. No. 1e+02;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      5  PSGARRRNCY 14
Db      70  PADAKRRNCY 79

RESULT 13
US-10-425-114-60305
; Sequence 60305, Application US/10425114
; Publication No. US2004003488A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 60305
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3606-028-E11_FLI.pep
US-10-425-114-60305

Query Match          51.7%; Score 45; DB 4; Length 336;
Best Local Similarity 70.0%; Pred. No. 1.1e+02;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      5  PSGARRRNCY 14
Db      88  PADAKRRNCY 97

RESULT 14
US-10-282-122A-62618
; Sequence 62618, Application US/10282122A
; Publication No. US20040029129A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Liangsu
; APPLICANT: Zamudio, Carlos
; APPLICANT: Malone, Cheryl
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Kari
; APPLICANT: Zyskind, Judith
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John
; APPLICANT: Carr, Grant
; APPLICANT: Yamamoto, Robert
; APPLICANT: Forsyth, R.
; APPLICANT: Xu, H.
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
; FILE REFERENCE: ELITRA.034A
; CURRENT APPLICATION NUMBER: US/10/282,122A
; CURRENT FILING DATE: 2003-02-20
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/230,335
; PRIOR FILING DATE: 2000-09-06
; PRIOR APPLICATION NUMBER: 60/230,347
; PRIOR FILING DATE: 2000-09-09
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/267,636
; PRIOR FILING DATE: 2001-02-09
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 78614
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 62618
; LENGTH: 1167
; TYPE: PRT
; ORGANISM: Mycobacterium bovis
US-10-282-122A-62618

Query Match          51.7%; Score 45; DB 4; Length 1167;
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Best Local Similarity 57.1%; Pred. No. 3.6e+02; Indels 0; Gaps 0;  
Matches 8; Conservative 1; Mismatches 5;

QY 2 SGPPSGARRRNCYE 15  
DB 334 AGPPDGYRRAAYE 347

## RESULT 15

US-10-282-122A-64572  
; Sequence 64572, Application US/10282122A

; Publication No. US20040029129A1

; GENERAL INFORMATION:

; APPLICANT: Wang, Liangsu

; APPLICANT: Zamudio, Carlos

; APPLICANT: Malone, Cheryl

; APPLICANT: Haselbeck, Robert

; APPLICANT: Ohlsen, Kari

; APPLICANT: Zyekind, Judith

; APPLICANT: Wall, Daniel

; APPLICANT: Trawick, John

; APPLICANT: Carr, Grant

; APPLICANT: Yamamoto, Robert

; APPLICANT: Forsyth, R.

; APPLICANT: Xu, H.

; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms

; FILE REFERENCE: ELITRA.034A

; CURRENT APPLICATION NUMBER: US/10/282,122A

; CURRENT FILING DATE: 2003-02-20

; PRIOR APPLICATION NUMBER: 60/191,078

; PRIOR FILING DATE: 2000-03-21

; PRIOR APPLICATION NUMBER: 60/206,848

; PRIOR FILING DATE: 2000-05-23

; PRIOR APPLICATION NUMBER: 60/207,727

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: 60/230,335

; PRIOR FILING DATE: 2000-09-06

; PRIOR APPLICATION NUMBER: 60/230,347

; PRIOR FILING DATE: 2000-09-09

; PRIOR APPLICATION NUMBER: 60/242,578

; PRIOR FILING DATE: 2000-10-23

; PRIOR APPLICATION NUMBER: 60/253,625

; PRIOR FILING DATE: 2000-11-27

; PRIOR APPLICATION NUMBER: 60/257,931

; PRIOR FILING DATE: 2000-12-22

; PRIOR APPLICATION NUMBER: 60/267,636

; PRIOR FILING DATE: 2001-02-09

; PRIOR APPLICATION NUMBER: 60/269,308

; PRIOR FILING DATE: 2001-02-16

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 78614

; SOFTWARE: PatentIn version 3.1

; SEQ ID NO 64572

; LENGTH: 1184

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-10-282-122A-64572

Query Match 51.7%; Score 45; DB 4; Length 1184;  
Best Local Similarity 57.1%; Pred. No. 3.7e+02;  
Matches 8; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
DB 335 AGPPDGYRRAAYE 348

## RESULT 16

US-10-476-597-140

; Sequence 140, Application US/10476597

; Publication No. US20040235766A1

; GENERAL INFORMATION:

; APPLICANT: Bullard, James

; APPLICANT: Janjic, Nebojsa  
; APPLICANT: McHenry, Charles S.  
; TITLE OF INVENTION: System for Discovery of Agents that Block Yersinia Pestis and  
; FILE REFERENCE: Pseudomonas Aeruginosa DNA Replication

; CURRENT APPLICATION NUMBER: US/10/476,597

; CURRENT FILING DATE: 2003-10-31

; PRIOR APPLICATION NUMBER: US 60/290,725

; PRIOR FILING DATE: 2001-05-14

; PRIOR APPLICATION NUMBER: PCT/US02/15111

; PRIOR FILING DATE: 2002-05-14

; PRIOR APPLICATION NUMBER: US 60/332,644

; PRIOR FILING DATE: 2001-11-05

; NUMBER OF SEQ ID NOS: 159

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 140

; LENGTH: 1184

; TYPE: PRT

; ORGANISM: Mycobacterium tuberculosis

US-10-476-597-140

Query Match 51.7%; Score 45; DB 5; Length 1184;  
Best Local Similarity 57.1%; Pred. No. 3.7e+02;  
Matches 8; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
DB 335 AGPPDGYRRAAYE 348

## RESULT 17

US-10-425-114-48971

; Sequence 48971, Application US/10425114

; Publication No. US20040034888A1

; GENERAL INFORMATION:

; APPLICANT: Liu, Jingdong

; APPLICANT: Zhou, Yihua

; APPLICANT: Kovalic, David K.

; APPLICANT: Screen, Steven E.

; APPLICANT: Tabaska, Jack E.

; APPLICANT: Cao, Yongwei

; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: Plants and Uses Thereof for Plant Improvement

; CURRENT APPLICATION NUMBER: US/10/425,114

; CURRENT FILING DATE: 2003-04-28

; NUMBER OF SEQ ID NOS: 73128

; SEQ ID NO 48971

; LENGTH: 97

; TYPE: PRT

; ORGANISM: Zea mays

; FEATURE:

; OTHER INFORMATION: Clone ID: 700429912\_FLI.pep

US-10-425-114-48971

Query Match 50.6%; Score 44; DB 4; Length 97;  
Best Local Similarity 63.6%; Pred. No. 47;  
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRRNC 13  
DB 1 GPPPSRRRTC 11

## RESULT 18

US-10-424-599-203545

; Sequence 203545, Application US/10424599

; Publication No. US20040031072A1

; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J

; APPLICANT: Kovalic, David K

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

```
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 203545
; LENGTH: 103
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_25827C.1.pep
US-10-424-599-203545

Query Match      50.6%; Score 44; DB 4; Length 103;
Best Local Similarity 58.3%; Pred. No. 50;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      4 PPSGARRRNCYE 15
      |||| : |||
Db      27 PPSGVHKIECYE 38

RESULT 19
US-10-425-115-221321
; Sequence 221321, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 221321
; LENGTH: 120
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_133436C.1.pep
US-10-425-115-221321

Query Match      50.6%; Score 44; DB 4; Length 120;
Best Local Similarity 57.1%; Pred. No. 58;
Matches 8; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY      1 YSGPPSGARRRNCY 14
      |||| : ||||
Db      12 YSAAGKAKRRNCY 25

RESULT 20
US-10-425-114-40066
; Sequence 40066, Application US/10425114
; Publication No. US20040034889A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yihua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53113)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 40066
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; LENGTH: 289
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: 700981026_FLI.pep
US-10-425-114-40066

Query Match      50.6%; Score 44; DB 4; Length 289;
Best Local Similarity 58.3%; Pred. No. 1.3e+02;
Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY      4 PPSGARRRNCYE 15
      |||| : |||
Db      193 PPSGVHKIECYE 204

RESULT 21
US-10-424-599-235980
; Sequence 235980, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 235980
; LENGTH: 73
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_55117C.1.pep
US-10-424-599-235980

Query Match      50.0%; Score 43.5; DB 4; Length 73;
Best Local Similarity 66.7%; Pred. No. 43;
Matches 10; Conservative 0; Mismatches 4; Indels 1; Gaps 1;

QY      1 YSGPPSG-ARRRNCY 14
      |||| : ||||
Db      39 YSGRRSSRCRRNCY 53

RESULT 22
US-10-424-599-215744
; Sequence 215744, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 215744
; LENGTH: 46
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_36846C.1.pep
US-10-424-599-215744

Query Match      49.4%; Score 43; DB 4; Length 46;
Best Local Similarity 54.5%; Pred. No. 33;
```



```
Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
QY 4 PPSGARRRNCY 14
Db 34 PPSGRRKSCY 44

RESULT 23
US-10-723-860-2460
; Sequence 2460, Application US/10723860
; Publication No. US20040253606A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Ginsburg, Wendy M.
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: Methods of Diagnosis of Soft Tissue Sarcoma, Compositions &
; TITLE OF INVENTION: Methods for Screening for Soft Tissue Sarcoma Modulators
; FILE REFERENCE: 05882.0193.NPUS01
; CURRENT APPLICATION NUMBER: US/10/723,860
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: 60/429,739
; PRIOR FILING DATE: 2002-11-26
; NUMBER OF SEQ ID NOS: 8393
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2460
; LENGTH: 94
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-723-860-2460

Query Match 49.4%; Score 43; DB 5; Length 94;
Best Local Similarity 72.7%; Pred. No. 65;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SGPPSGARRRN 12
Db 53 SGPPSGARRRN 63

RESULT 24
US-10-756-149-5369
; Sequence 5369, Application US/10756149
; Publication No. US20050181375A1
; GENERAL INFORMATION:
; APPLICANT: Aziz, Natasha
; APPLICANT: Zlotnik, Albert
; TITLE OF INVENTION: NOVEL METHODS OF DIAGNOSIS OF METASTATIC CANCER, COMPOSITIONS AND
; TITLE OF INVENTION: METHODS OF SCREENING FOR MODULATORS OF METASTATIC CANCER
; FILE REFERENCE: file
; CURRENT APPLICATION NUMBER: US/10/756,149
; CURRENT FILING DATE: 2004-01-12
; NUMBER OF SEQ ID NOS: 5818
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5369
; LENGTH: 94
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-10-756-149-5369

Query Match 49.4%; Score 43; DB 5; Length 94;
Best Local Similarity 72.7%; Pred. No. 65;
Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 2 SGPPSGARRRN 12
Db 53 SGPPSGARRRN 63

RESULT 25
US-10-424-599-177399
; Sequence 177399, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
```

```
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 177399
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_131207C.1.pep
US-10-424-599-177399

Query Match 49.4%; Score 43; DB 4; Length 128;
Best Local Similarity 63.6%; Pred. No. 88;
Matches 7; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GPPSGARRRNC 13
Db 101 GPPQGGGARRNC 111

RESULT 26
US-10-437-963-109816
; Sequence 109816, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Barbazuk, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 109816
; LENGTH: 155
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(155)
; OTHER INFORMATION: unsure at all Xaa locations
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_13939C.1.pep
US-10-437-963-109816

Query Match 49.4%; Score 43; DB 4; Length 155;
Best Local Similarity 58.3%; Pred. No. 1.le+02;
Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 4 PPSGARRRNCYE 15
Db 16 PPSPPRRRHCHE 27

RESULT 27
US-10-027-806-32
; Sequence 32, Application US/10027806
; Publication No. US20020160476A1
; GENERAL INFORMATION:
; APPLICANT: Swanson, Ronald V.
```

```
; APPLICANT: Feldman, Robert A.
; APPLICANT: Schleper, Christa
; TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
; FILE REFERENCE: DCCORP.002A
; CURRENT APPLICATION NUMBER: US/10/027,806
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Cenarchaeum symbiosum
US-10-027-806-32

Query Match          49.4%; Score 43; DB 4; Length 184;
Best Local Similarity 53.3%; Pred. No. 1.2e+02;
Matches 8; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

QY 1 YSGPPSGARRRNCYE 15
   |:|:|:|:|:|:|
Db 54 YNGTPPGV--KNCYE 66

RESULT 28
US-10-034-623-32
; Sequence 32, Application US/10034623
; Publication No. US20020198365A1
; GENERAL INFORMATION:
; APPLICANT: Swanson, Ronald V.
; APPLICANT: Feldman, Robert A.
; TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
; FILE REFERENCE: DCCORP.002A
; CURRENT APPLICATION NUMBER: US/10/034,623
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/408,020
; PRIOR FILING DATE: 1999-09-29
; PRIOR APPLICATION NUMBER: 60/102,294
; PRIOR FILING DATE: 1998-09-29
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Cenarchaeum symbiosum
US-10-034-623-32

Query Match          49.4%; Score 43; DB 4; Length 184;
Best Local Similarity 53.3%; Pred. No. 1.2e+02;
Matches 8; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

QY 1 YSGPPSGARRRNCYE 15
   |:|:|:|:|:|:|
Db 54 YNGTPPGV--KNCYE 66

RESULT 29
US-10-027-801-32
; Sequence 32, Application US/10027801
; Publication No. US20030054364A1
; GENERAL INFORMATION:
; APPLICANT: Swanson, Ronald V.
; APPLICANT: Feldman, Robert A.
; TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
; FILE REFERENCE: DCCORP.002A
; CURRENT APPLICATION NUMBER: US/10/027,801
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 123
```

```
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Cenarchaeum symbiosum
US-10-027-801-32

Query Match          49.4%; Score 43; DB 4; Length 184;
Best Local Similarity 53.3%; Pred. No. 1.2e+02;
Matches 8; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

QY 1 YSGPPSGARRRNCYE 15
   |:|:|:|:|:|:|
Db 54 YNGTPPGV--KNCYE 66

RESULT 30
US-10-029-120-32
; Sequence 32, Application US/10029120
; Publication No. US20030175708A1
; GENERAL INFORMATION:
; APPLICANT: Swanson, Ronald V.
; APPLICANT: Feldman, Robert A.
; APPLICANT: Schleper, Christa
; TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
; FILE REFERENCE: DCCORP.002A
; CURRENT APPLICATION NUMBER: US/10/029,120
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/408,020
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 32
; LENGTH: 184
; TYPE: PRT
; ORGANISM: Cenarchaeum symbiosum
US-10-029-120-32

Query Match          49.4%; Score 43; DB 4; Length 184;
Best Local Similarity 53.3%; Pred. No. 1.2e+02;
Matches 8; Conservative 2; Mismatches 3; Indels 2; Gaps 1;

QY 1 YSGPPSGARRRNCYE 15
   |:|:~|:~|:~|:~|
Db 54 YNGTPPGV--KNCYE 66

RESULT 31
US-10-726-699-93
; Sequence 93, Application US/10726699
; Publication No. US20040253672A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 20 Human Secreted Proteins
; FILE REFERENCE: PS737
; CURRENT APPLICATION NUMBER: US/10/726,699
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/US02/17699
; PRIOR FILING DATE: 2002-06-05
; PRIOR APPLICATION NUMBER: US 60/295,869
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/304,121
; PRIOR FILING DATE: 2001-07-11
; NUMBER OF SEQ ID NOS: 118
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 93
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-726-699-93

Query Match          49.4%; Score 43; DB 5; Length 243;
Best Local Similarity 72.7%; Pred. No. 1.6e+02;
```

Matches 8; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 3 GPPSGARRNC 13  
||| ||| |||  
Db 219 GPGSGARRHC 229

RESULT 32  
US-09-988-462-19  
; Sequence 19, Application US/09988462  
; Publication No. US20030046726A1

GENERAL INFORMATION:

APPLICANT: Koziel, Michael G.

Desai, Nalini M.

Lewis, Kelly S.

Kramer, Vance C.

Warren, Gregory W.

Evola, Stephen V.

Crossland, Lyle D.

Wright, Martha S.

Merlin, Ellis J.

Launis, Karen L.

TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED  
INSECTICIDAL ACTIVITY IN MAIZE

NUMBER OF SEQUENCES: 94

CORRESPONDENCE ADDRESS:

ADDRESSEE: Syngenta Biotechnology, Inc.

STREET: 3054 Cornwallis Road

CITY: Research Triangle Park

STATE: NC

COUNTRY: USA

ZIP: 27709

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/988,462

FILING DATE: 20-No. US20030046726A1-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 09/547,422

FILING DATE: 11-APR-2000

APPLICATION NUMBER: US 08/459,504

FILING DATE: 02-JUN-1995

APPLICATION NUMBER: US 07/951,715

FILING DATE: 25-SEP-1992

APPLICATION NUMBER: US 07/772,027

FILING DATE: 04-OCT-1991

ATTORNEY/AGENT INFORMATION:

NAME: Meigs, J. Timothy

REGISTRATION NUMBER: 38,241

REFERENCE/DOCKET NUMBER: S-188051

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919)541-8587

TELEFAX: (919)541-8689

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 346 amino acids

MOLECULE TYPE: protein

SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-09-988-462-19

Query Match 49.4%; Score 43; DB 3; Length 346;

Best Local Similarity 42.9%; Pred. No. 2.3e+02;

Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRNCYE 15  
: ||| ||| |||  
Db 63 AAPQAGRRRCHQ 76

RESULT 33

US-09-963-896-2

; Sequence 2, Application US/09963896

; Patent No. US20020102585A1

GENERAL INFORMATION:

APPLICANT: Lal, Preeti

Guegler, Karl J.

Corley, Neil C.

TITLE OF INVENTION: PROSTATE GROWTH-ASSOCIATED MEMBRANE PROTEINS

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.

STREET: 3174 PORTER DRIVE

CITY: PALO ALTO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/963,896

FILING DATE: 26-Sep-2001

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/397,558

FILING DATE: <Unknown>

ATTORNEY/AGENT INFORMATION:

NAME: CERRONE, MICHAEL C.

REGISTRATION NUMBER: 39,132

REFERENCE/DOCKET NUMBER: PF-0527 US

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 855-0555

TELEFAX: (650) 845-4166

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 410 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

IMMEDIATE SOURCE:

LIBRARY: BRSTUT03

CLONE: 1999442

SEQUENCE DESCRIPTION: SEQ ID NO: 2 :

US-09-963-896-2

Query Match 49.4%; Score 43; DB 3; Length 410;

Best Local Similarity 72.7%; Pred. No. 2.7e+02;

Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRNC 13  
| ||| |||  
Db 190 GPPSGARACG 200

RESULT 34

US-10-425-114-36762

; Sequence 36762, Application US/10425114

; Publication No. US20040034888A1

GENERAL INFORMATION:

APPLICANT: Liu, Jingdong

APPLICANT: Zhou, Yihua

APPLICANT: Kovalic, David K.

APPLICANT: Screen, Steven E

APPLICANT: Tabaska, Jack E

APPLICANT: Cao, Yongwei

TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

Plants and Uses Thereof for Plant Improvement

FILE REFERENCE: 38-21(53313)B

```
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 36762
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: LIB3136-007-H10_FLI.pep
US-10-425-114-36762

Query Match      49.4%; Score 43; DB 4; Length 433;
Best Local Similarity 66.7%; Pred. No. 2.8e+02;
Matches 8; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      2 SGPPSGARRRNC 13
DB      275 SGPPSGASYSKC 286
      |||||
RESULT 35
US-10-450-763-34231
; Sequence 34231, Application US/10450763
; Publication No. US20050196754A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 790GIP3/US
; CURRENT APPLICATION NUMBER: US/10/450,763
; CURRENT FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: PCT/US01/08631
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 09/540,217
; PRIOR FILING DATE: 2000-03-31
; PRIOR APPLICATION NUMBER: 09/649,167
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 60736
; SOFTWARE: Custom
; SEQ ID NO 34231
; LENGTH: 475
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)..(475)
; OTHER INFORMATION: Xaa = X or * as defined in Table 2
US-10-450-763-34231

Query Match      49.4%; Score 43; DB 5; Length 475;
Best Local Similarity 61.5%; Pred. No. 3.1e+02;
Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY      3 GPPSGARRRNCYE 15
DB      428 GPESGKRRSRGVE 440
      |||||
RESULT 36
US-10-425-115-231244
; Sequence 231244, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 231244
```

```
; LENGTH: 63
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_14248C.1.pep
US-10-425-115-231244

Query Match      48.3%; Score 42; DB 4; Length 63;
Best Local Similarity 70.0%; Pred. No. 64;
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 YSGPPSGARR 10
DB      53 YRGPPKGTTR 62
      |||||
RESULT 37
US-09-864-761-46439
; Sequence 46439, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Acomica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/006666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 46439
; LENGTH: 66
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
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```

; OTHER INFORMATION: MAP TO AC011298.2
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2
; OTHER INFORMATION: EST HUMAN HIT: BF339540.1, EVALUATE 5.00e-21
; OTHER INFORMATION: SWISSPROT HIT: P30020, EVALUATE 5.40e+00
US-09-864-761-46439

Query Match      48.3%; Score 42; DB 3; Length 66;
Best Local Similarity 70.0%; Pred. No. 67;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy      4 PPSGARRRNC 13
Db      16 PPSGLSRHC 25

RESULT 38
US-10-437-963-189306
; Sequence 189306, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Brad
; APPLICANT: Li, Ping
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 189306
; LENGTH: 98
; TYPE: PRT
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_85828C.1.pep
US-10-437-963-189306

Query Match      48.3%; Score 42; DB 4; Length 98;
Best Local Similarity 61.5%; Pred. No. 97;
Matches 8; Conservative 3; Mismatches 0; Indels 2; Gaps 1;

Qy      4 PPSGARR--RNCY 14
Db      59 PPNGARLRPRSCF 71

RESULT 39
US-10-425-115-255336
; Sequence 255336, Application US/10425115
; Publication No. US20040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(53222)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO 255336
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_164444C.1.pep

```

```

US-10-425-115-255336

Query Match      48.3%; Score 42; DB 4; Length 99;
Best Local Similarity 63.6%; Pred. No. 98;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      4 PPSGARRRNCY 14
Db      55 PPSGSORRNTY 65

RESULT 40
US-10-644-765-167
; Sequence 167, Application US/10644765
; Publication No. US20050181371A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 70 Human Secreted Proteins
; FILE REFERENCE: PS736
; CURRENT APPLICATION NUMBER: US/10/644,765
; CURRENT FILING DATE: 2003-08-21
; PRIOR APPLICATION NUMBER: PCT/US02/05301
; PRIOR FILING DATE: 2002-02-21
; PRIOR APPLICATION NUMBER: US 60/304,417
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: US 60/270,625
; PRIOR FILING DATE: 2001-02-23
; NUMBER OF SEQ ID NOS: 340
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 167
; LENGTH: 99
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Patentin Ver. 2.0
US-10-644-765-167

Query Match      48.3%; Score 42; DB 5; Length 99;
Best Local Similarity 63.6%; Pred. No. 98;
Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy      2 SGPPSGARRRN 12
Db      87 NGPPAGGRRLN 97

Search completed: February 11, 2006, 08:33:54
Job time : 179 secs

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GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: February 11, 2006, 08:19:03 ; Search time 47 Seconds  
(without alignments)  
26.386 Million cell updates/sec

Title: SWOP-018-SEQ1  
Perfect score: 87  
Sequence: 1 ysgpgsgarrncye 15

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

- 1: /cgn2\_6/prodata/1/iaa/5 COMB.pep.\*
- 2: /cgn2\_6/prodata/1/iaa/6 COMB.pep.\*
- 3: /cgn2\_6/prodata/1/iaa/H COMB.pep.\*
- 4: /cgn2\_6/prodata/1/iaa/PCTUS COMB.pep.\*
- 5: /cgn2\_6/prodata/1/iaa/RE COMB.pep.\*
- 6: /cgn2\_6/prodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	46	52.9	117	2	US-09-489-039A-7862
2	44	50.6	464	2	US-09-252-991A-26212
3	43	49.4	184	2	US-09-408-020-32
4	43	49.4	258	2	US-09-252-991A-24793
5	43	49.4	346	1	US-07-951-715A-19
6	43	49.4	346	1	US-08-459-448A-19
7	43	49.4	346	2	US-08-459-595A-19
8	43	49.4	346	2	US-08-459-504B-19
9	43	49.4	346	2	US-08-459-444-19
10	43	49.4	346	2	US-09-547-422-19
11	43	49.4	346	2	US-09-988-462-19
12	43	49.4	410	2	US-09-083-521-2
13	42	48.3	276	2	US-09-252-991A-18128
14	42	48.3	314	2	US-08-927-219-6
15	42	48.3	613	2	US-09-252-991A-22424
16	42	48.3	672	2	US-09-252-991A-18930
17	41	47.1	127	2	US-09-252-991A-26684
18	41	47.1	145	2	US-09-252-991A-21532
19	41	47.1	146	2	US-09-252-991A-18183
20	41	47.1	156	2	US-09-252-991A-21289
21	41	47.1	260	2	US-09-252-991A-25992
22	41	47.1	341	2	US-09-252-991A-27955
23	41	47.1	373	2	US-09-252-991A-29008
24	41	47.1	690	2	US-09-252-991A-16715
25	40.5	46.6	598	2	US-09-854-845-41
26	40.5	46.6	603	2	US-09-854-845-39
27	40.5	46.6	697	2	US-09-854-845-25

28	40.5	46.6	702	2	US-09-854-845-23	Sequence 23, Appl
29	40.5	46.6	739	2	US-09-854-845-45	Sequence 45, Appl
30	40.5	46.6	744	2	US-09-854-845-43	Sequence 43, Appl
31	40.5	46.6	766	2	US-09-854-845-49	Sequence 49, Appl
32	40.5	46.6	771	2	US-09-854-845-47	Sequence 47, Appl
33	40.5	46.6	838	2	US-09-854-845-29	Sequence 29, Appl
34	40.5	46.6	843	2	US-09-854-845-27	Sequence 27, Appl
35	40.5	46.6	865	2	US-09-854-845-33	Sequence 33, Appl
36	40.5	46.6	870	2	US-09-854-845-31	Sequence 31, Appl
37	40	46.0	158	2	US-09-252-991A-31073	Sequence 31073, A
38	40	46.0	186	2	US-09-248-796A-15677	Sequence 15677, A
39	40	46.0	225	2	US-09-252-991A-29348	Sequence 29348, A
40	40	46.0	273	2	US-09-252-991A-31733	Sequence 31733, A
41	40	46.0	331	2	US-09-252-991A-19406	Sequence 19406, A
42	40	46.0	369	2	US-09-252-991A-25394	Sequence 25394, A
43	40	46.0	430	2	US-09-252-991A-25820	Sequence 25820, A
44	40	46.0	526	2	US-09-925-637-74	Sequence 74, Appl
45	40	46.0	622	2	US-09-252-991A-32308	Sequence 32308, A

ALIGNMENTS

RESULT 1  
US-09-489-039A-7862  
; Sequence 7862, Application US/09489039A  
; Patent No. 6610836  
; GENERAL INFORMATION:  
; APPLICANT: Gary Breton et. al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA  
; FILE REFERENCE: PNEUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS  
; CURRENT APPLICATION NUMBER: US/09/489,039A  
; CURRENT FILING DATE: 2000-01-27  
; PRIOR APPLICATION NUMBER: US 60/117,747  
; PRIOR FILING DATE: 1999-01-29  
; NUMBER OF SEQ ID NOS: 14342  
; SEQ ID NO 7862  
; LENGTH: 117  
; TYPE: PRT  
; ORGANISM: Klebsiella pneumoniae  
US-09-489-039A-7862

Query Match 52.9%; Score 46; DB 2; Length 117;  
Best Local Similarity 66.7%; Pred. No. 7.6;  
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRNC 13  
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DB 1 SGPRAGRRRQC 12

RESULT 2  
US-09-252-991A-26212  
; Sequence 26212, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 26212  
; LENGTH: 464  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-26212

Query Match 50.6%; Score 44; DB 2; Length 464;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GPPSGARR 10  
| | | | | | | |  
Db 101 GPPSGARR 108

RESULT 3  
US-09-408-020-32  
; Sequence 32, Application US/09408020  
; Patent No. 6632937  
; GENERAL INFORMATION:  
; APPLICANT: Swanson, Ronald V.  
; APPLICANT: Feldman, Robert A.  
; APPLICANT: Schleper, Christa  
; TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM  
; FILE REFERENCE: DCCP.002A  
; CURRENT APPLICATION NUMBER: US/09/408,020  
; CURRENT FILING DATE: 1999-09-29  
; PRIOR APPLICATION NUMBER: 60/102,294  
; PRIOR FILING DATE: 1998-09-29  
; NUMBER OF SEQ ID NOS: 123  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 32  
; LENGTH: 184  
; TYPE: PRT  
; ORGANISM: Cenarchaeum symbiosum  
US-09-408-020-32

Query Match 49.4%; Score 43; DB 2; Length 184;  
Best Local Similarity 53.3%; Pred. No. 35;  
Matches 8; Conservative 2; Mismatches 3; Indels 3; Gaps 1;

QY 1 YSGPPSGARRRNCYE 15  
| | | | | : | | | |  
Db 54 YNGTPPGV--KNCYE 66

RESULT 4  
US-09-252-991A-24793  
; Sequence 24793, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 24793  
; LENGTH: 258  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-24793

Query Match 49.4%; Score 43; DB 2; Length 258;  
Best Local Similarity 72.7%; Pred. No. 48;  
Matches 8; Conservative 0; Mismatches 3; Indels 3; Gaps 0;

QY 3 GPPSGARRNC 13  
| | | | | | | |  
Db 139 GLPSGRRRRRC 149

RESULT 5  
US-07-951-715A-19  
; Sequence 19, Application US/07951715A  
; Patent No. 5625136  
; GENERAL INFORMATION:  
; APPLICANT: Koziel, Michael G.  
; APPLICANT: Desai, Nalini M.  
; APPLICANT: Lewis, Kelly S.  
; APPLICANT: Kramer, Vance C.  
; APPLICANT: Warren, Gregory W.  
; APPLICANT: Evola, Stephen V.  
; APPLICANT: Crossland, Lyle D.  
; APPLICANT: Wright, Martha S.  
; APPLICANT: Merlin, Ellis J.  
; APPLICANT: Launis, Karen L.  
; APPLICANT: Rothstein, Steven J.  
; APPLICANT: Bowman, Cindy G.  
; APPLICANT: Dawson, John L.  
; APPLICANT: Dunder, Erik M.  
; APPLICANT: Pace, Gary M.  
; APPLICANT: Suttie, Janet L.  
; TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED  
; TITLE OF INVENTION: INSECTICIDAL ACTIVITY IN MAIZE  
; NUMBER OF SEQUENCES: 94  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: CIBA-GEIGY Corporation  
; STREET: 7 Skyline Drive  
; CITY: Hawthorne  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10532  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patencin Release #1.0, Version #1.30B  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/951,715A  
; FILING DATE: 25-SEP-1992  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 07/772,027  
; FILING DATE: 04-OCT-1991  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Spruill, W. Murray  
; REGISTRATION NUMBER: 32,943  
; REFERENCE/DOCKET NUMBER: S-18805/A/CGC 1577/CIP  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (919)541-8615  
; TELEFAX: (919)541-8689  
; INFORMATION FOR SEQ ID NO: 19:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 346 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-07-951-715A-19

Query Match 49.4%; Score 43; DB 1; Length 346;  
Best Local Similarity 42.9%; Pred. No. 64;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
: | | | | | | | |  
Db 63 AAPQAGRRRRCHQ 76

RESULT 6  
US-08-459-448A-19  
; Sequence 19, Application US/08459448A  
; Patent No. 5859336  
; GENERAL INFORMATION:  
; APPLICANT: Koziel, Michael G.  
; APPLICANT: Desai, Nalini M.



APPLICANT: Lewis, Kelly S.  
APPLICANT: Kramer, Vance C.  
APPLICANT: Warren, Gregory W.  
APPLICANT: Evola, Stephen V.  
APPLICANT: Crossland, Lyle D.  
APPLICANT: Wright, Martha S.  
APPLICANT: Merlin, Ellis J.  
APPLICANT: Rothstein, Steven J.  
APPLICANT: Bowman, John L.  
APPLICANT: Dawson, John L.  
APPLICANT: Dunder, Erik M.  
APPLICANT: Pace, Gary M.  
APPLICANT: Suttie, Janet L.  
TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED  
INSECTICIDAL ACTIVITY IN MAIZE  
NUMBER OF SEQUENCES: 94  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 589336artis Corporation  
STREET: Patent & Trademark Dept., 520 White Plains  
STREET: Rd., POB 2005  
CITY: Tarrytown  
STATE: New York  
COUNTRY: USA  
ZIP: 10591-9005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/459,448A  
FILING DATE: 02-JUN-1995  
CLASSIFICATION: 800  
PRIOR APPLICATION NUMBER: US 07/951,715  
FILING DATE: 25-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/772,027  
FILING DATE: 04-OCT-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Pace, Gary M.  
REGISTRATION NUMBER: 40403  
REFERENCE/DOCKET NUMBER: CGC 1577/CIP/DIV4  
TELEPHONE: (919)541-8582  
TELEFAX: (919)541-8689  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-459-448A-19

Query Match 49.4%; Score 43; DB 1; Length 346;  
Best Local Similarity 42.9%; Pred. No. 64;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
Db 63 AAPPGARRRRRCHQ 76

RESULT 7  
US-08-459-595A-19  
; Sequence 19, Application US/08459595A  
; Patent No. 6018104  
; GENERAL INFORMATION:  
; APPLICANT: Koziel, Michael G.  
; APPLICANT: Desai, Nalini M.  
; APPLICANT: Lewis, Kelly S.  
; APPLICANT: Kramer, Vance C.

APPLICANT: Warren, Gregory W.  
APPLICANT: Evola, Stephen V.  
APPLICANT: Crossland, Lyle D.  
APPLICANT: Wright, Martha S.  
APPLICANT: Merlin, Ellis J.  
APPLICANT: Launis, Karen L.  
APPLICANT: Rothstein, Steven J.  
APPLICANT: Bowman, Cindy G.  
APPLICANT: Dawson, John L.  
APPLICANT: Dunder, Erik M.  
APPLICANT: Pace, Gary M.  
APPLICANT: Suttie, Janet L.  
TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED  
INSECTICIDAL ACTIVITY IN MAIZE  
NUMBER OF SEQUENCES: 94  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 601810artis Corporation  
STREET: Patent & Trademark Dept., 520 White Plains  
STREET: Rd., POB 2005  
CITY: Tarrytown  
STATE: New York  
COUNTRY: USA  
ZIP: 10591-9005  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/459,595A  
FILING DATE: 02-JUN-1995  
CLASSIFICATION: 800  
PRIOR APPLICATION NUMBER: US 07/951,715  
FILING DATE: 25-SEP-1992  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/772,027  
FILING DATE: 04-OCT-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Pace, Gary M.  
REGISTRATION NUMBER: 40403  
REFERENCE/DOCKET NUMBER: CGC 1577/CIP/DIV3  
TELEPHONE: (919)541-8582  
TELEFAX: (919)541-8689  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-459-595A-19

Query Match 49.4%; Score 43; DB 2; Length 346;  
Best Local Similarity 42.9%; Pred. No. 64;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
Db 63 AAPPGARRRRRCHQ 76

RESULT 8  
US-08-459-504B-19  
; Sequence 19, Application US/08459504B  
; Patent No. 6075185  
; GENERAL INFORMATION:  
; APPLICANT: Koziel, Michael G.  
; APPLICANT: Desai, Nalini M.  
; APPLICANT: Lewis, Kelly S.  
; APPLICANT: Kramer, Vance C.  
; APPLICANT: Warren, Gregory W.  
; APPLICANT: Evola, Stephen V.

Wright, Martha S.  
Merlin, Ellis J.  
Lauis, Karen L.  
TITLE OF INVENTION: METHOD FOR PRODUCING A PLANT-OPTIMIZED  
NUCLEIC ACID CODING SEQUENCE  
NUMBER OF SEQUENCES: 94  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: No. 6121014artis Agribusiness Biotechnology Research, Inc.  
CITY: 3054 Cornwallis Road  
STATE: NC  
COUNTRY: USA  
ZIP: 27709  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/459,444A  
FILING DATE: 02-Jun-1995  
CLASSIFICATION: <Unknown>  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US 07/951,715  
FILING DATE: 25-SEP-1992  
APPLICATION NUMBER: US 07/772,027  
FILING DATE: 04-OCT-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Meigs, J. Timothy  
REGISTRATION NUMBER: 38,241  
REFERENCE/DOCKET NUMBER: S-18805/Pl/CGC1577/CIP/DIV6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (919)541-8587  
TELEFAX: (919)541-8689  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
US-08-459-444-19

RESULT 10  
 US-09-547-422-19  
 ? Sequence 19, Application US/09547422  
 ? Patent NO. 6320100  
 ? GENERAL INFORMATION:  
 ? APPLICANT: Koziel, Michael G.  
 ? Desai, Nalini M.  
 ? Lewis, Kelly S.  
 ? Kramer, Vance C.  
 ? Warren, Gregory W.  
 ? Evola, Stephen V.  
 ? Crossland, Lyle D.  
 ? Wright, Martha S.  
 ? Merlin, Ellis J.  
 ? Launis, Karen L.  
 ?  
 ? TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED  
 ? INSECTICIDAL ACTIVITY IN MAIZE  
 ?  
 ? NUMBER OF SEQUENCES: 94  
 ? CORRESPONDENCE ADDRESS:  
 ? ADDRESS: No. 6320100artis Agribusiness Biotechnology Research, Inc.  
 ? STREET: 3054 Cornwallis Road

CITY: Research Triangle Park  
STATE: NC  
COUNTRY: USA  
ZIP: 27709  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US 09/547,422  
FILING DATE: 11-APR-2000  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/459,595  
FILING DATE: 02-JUN-1995  
APPLICATION NUMBER: US 07/951,715  
FILING DATE: 25-SEP-1992  
APPLICATION NUMBER: US 07/772,027  
FILING DATE: 04-OCT-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Meigs, J. Timothy  
REGISTRATION NUMBER: 38,241  
REFERENCE/DOCKET NUMBER: S-18805H  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (919)541-8587  
TELEFAX: (919)541-8689  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
US-09-547-422-19  
Query Match 49.4%; Score 43; DB 2; Length 346;  
Best Local Similarity 42.9%; Pred. No. 64;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;  
QY 2 SGPPSGARRRNCYE 15  
Db 63 AAPQAGRRRRCHQ 76  
RESULT 11  
US-09-988-462-19  
Sequence 19, Application US/09988462  
Patent No. 6720488  
GENERAL INFORMATION:  
APPLICANT: Koziel, Michael G.  
Desai, Nalini M.  
Lewis, Kelly S.  
Kramer, Vance C.  
Warren, Gregory W.  
Evola, Stephen V.  
Crossland, Lyle D.  
Wright, Martha S.  
Merlin, Ellis J.  
Lauais, Karen L.  
TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED  
INSECTICIDAL ACTIVITY IN MAIZE  
NUMBER OF SEQUENCES: 94  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Syngenta Biotechnology, Inc.  
STREET: 3054 Cornwallis Road  
CITY: Research Triangle Park  
STATE: NC  
COUNTRY: USA  
ZIP: 27709  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/988,462  
FILING DATE: 20-NOV-6720488-2001  
CLASSIFICATION: <Unknown>  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 09/547,422  
FILING DATE: 11-APR-2000  
APPLICATION NUMBER: US 08/459,504  
FILING DATE: 02-JUN-1995  
APPLICATION NUMBER: US 07/951,715  
FILING DATE: 25-SEP-1992  
APPLICATION NUMBER: US 07/772,027  
FILING DATE: 04-OCT-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Meigs, J. Timothy  
REGISTRATION NUMBER: 38,241  
REFERENCE/DOCKET NUMBER: S-18805I  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (919)541-8587  
TELEFAX: (919)541-8689  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 19:  
US-09-988-462-19  
Query Match 49.4%; Score 43; DB 2; Length 346;  
Best Local Similarity 42.9%; Pred. No. 64;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;  
QY 2 SGPPSGARRRNCYE 15  
Db 63 AAPQAGRRRRCHQ 76  
RESULT 12  
US-09-083-521-2  
Sequence 2, Application US/09083521  
Patent No. 6048970  
GENERAL INFORMATION:  
APPLICANT: Lal, Preeti  
APPLICANT: Guegler, Karl J.  
APPLICANT: Corley, Neil C.  
TITLE OF INVENTION: PROSTATE GROWTH-ASSOCIATED MEMBRANE PROTEINS  
NUMBER OF SEQUENCES: 7  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.  
STREET: 3174 PORTER DRIVE  
CITY: PALO ALTO  
STATE: CALIFORNIA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/083,521  
FILING DATE: Herewith  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: CERRONE, MICHAEL C.  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: PF-0527 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (650) 855-0555  
TELEFAX: (650) 845-4166

; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 410 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; IMMEDIATE SOURCE:  
 ; LIBRARY: BRSTTUT03  
 ; CLONE: 1999442  
 US-09-083-521-2

Query Match 49.4%; Score 43; DB 2; Length 410;  
 Best Local Similarity 72.7%; Pred. No. 76;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRRNC 13  
 |||||  
 DB 190 GVPGARARGC 200

RESULT 13  
 US-09-252-991A-18128  
 ; Sequence 18128, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 18128  
 ; LENGTH: 276  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-18128

Query Match 48.3%; Score 42; DB 2; Length 276;  
 Best Local Similarity 66.7%; Pred. No. 73;  
 Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNC 13  
 |||||  
 DB 182 SGPGTPARRRRC 193

RESULT 14  
 US-08-927-219-6  
 ; Sequence 6, Application US/08927219  
 ; Patent No. 6187533  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bell, Graeme I.  
 ; APPLICANT: Yamagata, Kazuya  
 ; APPLICANT: Oda, Naohisa  
 ; APPLICANT: Katsaki, Pamela J.  
 ; APPLICANT: Furuta, Hiroco  
 ; APPLICANT: Horikawa Yukio  
 ; APPLICANT: Menzel, Stephen  
 ; TITLE OF INVENTION: MUTATIONS IN THE DIABETES SUSCEPTIBILITY  
 ; TITLE OF INVENTION: GENES HEPATOCYTE NUCLEAR FACTOR (HNF) 1 ALPHA, HNF-1BETA  
 ; TITLE OF INVENTION: AND HNF-4ALPHA  
 ; NUMBER OF SEQUENCES: 147  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Arnold, White & Durkee  
 ; STREET: P.O. Box 4433  
 ; CITY: Houston  
 ; STATE: Texas  
 ; COUNTRY: USA

; ZIP: 77210  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/927,219  
 ; FILING DATE: Concurrently Herewith  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/029,679  
 ; FILING DATE: 30-OCT-1996  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/028,056  
 ; FILING DATE: 02-OCT-1996  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 60/025,719  
 ; FILING DATE: 10-SEP-1996  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Wilson, Mark B.  
 ; REGISTRATION NUMBER: 37,259  
 ; REFERENCE/DOCKET NUMBER: ARCD:272  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 512/418-3000  
 ; TELEFAX: 512/474-7577  
 ; INFORMATION FOR SEQ ID NO: 6:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 314 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 US-08-927-219-6

Query Match 48.3%; Score 42; DB 2; Length 314;  
 Best Local Similarity 61.5%; Pred. No. 83;  
 Matches 8; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1 YSGPPSGARRRNC 13  
 |||||  
 DB 286 YSGPPPRARPGTC 298

RESULT 15  
 US-09-252-991A-22424  
 ; Sequence 22424, Application US/09252991A  
 ; Patent No. 6551795  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Marc J. Rubenfield et al.  
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 ; FILE REFERENCE: 107196.136  
 ; CURRENT APPLICATION NUMBER: US/09/252,991A  
 ; CURRENT FILING DATE: 1999-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/074,788  
 ; PRIOR FILING DATE: 1998-02-18  
 ; PRIOR APPLICATION NUMBER: US 60/094,190  
 ; PRIOR FILING DATE: 1998-07-27  
 ; NUMBER OF SEQ ID NOS: 33142  
 ; SEQ ID NO 22424  
 ; LENGTH: 613  
 ; TYPE: PRT  
 ; ORGANISM: Pseudomonas aeruginosa  
 US-09-252-991A-22424

Query Match 48.3%; Score 42; DB 2; Length 613;  
 Best Local Similarity 58.3%; Pred. No. 1.6e+02;  
 Matches 7; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNC 13  
 |||||  
 DB 597 SATPGPRKNC 608

```
RESULT 16
US-09-252-991A-18930
; Sequence 18930, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18930
; LENGTH: 672
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18930

Query Match      48.3%; Score 42; DB 2; Length 672;
Best Local Similarity 70.0%; Pred. No. 1.8e+02;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      2 SGPPSGARR 11
      :|||:||||
Db      72 AGPTGPRR 81

RESULT 17
US-09-252-991A-26684
; Sequence 26684, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 26684
; LENGTH: 127
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26684

Query Match      47.1%; Score 41; DB 2; Length 127;
Best Local Similarity 80.0%; Pred. No. 49;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      3 GPPSGARRN 12
      :|||:||||
Db      73 GSPSSARRN 82

RESULT 18
US-09-252-991A-21532
; Sequence 21532, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
```

```
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21532
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21532

Query Match      47.1%; Score 41; DB 2; Length 145;
Best Local Similarity 70.0%; Pred. No. 55;
Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      2 SGPPSGARR 11
      :|||:||||
Db      75 SAPPTGSR 84

RESULT 19
US-09-252-991A-18183
; Sequence 18183, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18183
; LENGTH: 146
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18183

Query Match      47.1%; Score 41; DB 2; Length 146;
Best Local Similarity 87.5%; Pred. No. 56;
Matches 7; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      3 GPPSGARR 10
      :|||:||||
Db      57 GPPAGARR 64

RESULT 20
US-09-252-991A-21289
; Sequence 21289, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21289
; LENGTH: 156
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-21289
```

Query Match 47.1%; Score 41; DB 2; Length 156;  
Best Local Similarity 66.7%; Pred. No. 60;  
Matches 8; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 3 GPPSGARRRNCY 14  
|||:|||||  
Db 133 GPPAGAPRRAPY 144

RESULT 21  
US-09-252-991A-25992  
; Sequence 25992, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 25992  
; LENGTH: 260  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-25992

Query Match 47.1%; Score 41; DB 2; Length 260;  
Best Local Similarity 66.7%; Pred. No. 99;  
Matches 8; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNC 13  
|||:|||||  
Db 19 SGAPMGYRRAC 30

RESULT 22  
US-09-252-991A-27955  
; Sequence 27955, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 27955  
; LENGTH: 341  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-27955

Query Match 47.1%; Score 41; DB 2; Length 341;  
Best Local Similarity 77.8%; Pred. No. 1.3e+02;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 GPPSGARRR 11  
|||:|||||  
Db 310 GPPAGQRRR 318

RESULT 23

US-09-252-991A-29008  
; Sequence 29008, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 29008  
; LENGTH: 373  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-29008

Query Match 47.1%; Score 41; DB 2; Length 373;  
Best Local Similarity 77.8%; Pred. No. 1.4e+02;  
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 4 PPSGARRRN 12  
|||:|||||  
Db 334 PPGARRRN 342

RESULT 24  
US-09-252-991A-16715  
; Sequence 16715, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 16715  
; LENGTH: 690  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-16715

Query Match 47.1%; Score 41; DB 2; Length 690;  
Best Local Similarity 70.0%; Pred. No. 2.6e+02;  
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 YSGPPSGARR 10  
|||:|||||  
Db 66 YGPPRGRR 75

RESULT 25  
US-09-854-845-41  
; Sequence 41, Application US/09854845  
; Patent No. 6750054  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wang, Xiaoming  
; APPLICANT: Scoville, John  
; APPLICANT: Turner, C. Alexander Jr.  
; TITLE OF INVENTION: No. 6750054e1 Human Semaphorin Homologs and Polynucleotides Encod  
; FILE REFERENCE: LEX-0177-USA  
; CURRENT APPLICATION NUMBER: US/09/854,845

```
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 41
; LENGTH: 598
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-41
```

```
Query Match 46.6%; Score 40.5; DB 2; Length 598;
Best Local Similarity 37.5%; Pred. No. 2.7e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;
```

```
QY 1 YSGPPSG-----ARRNCYE 15
| | | | | : | | | |
Db 394 YVGAPSGVIQLPLSSCSRYRSCYD 417
```

```
RESULT 26
US-09-854-845-39
; Sequence 39, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 39
; LENGTH: 603
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-39
```

```
Query Match 46.6%; Score 40.5; DB 2; Length 603;
Best Local Similarity 37.5%; Pred. No. 2.7e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;
```

```
QY 1 YSGPPSG-----ARRNCYE 15
| | | | | : | | | |
Db 394 YVGAPSGVIQLPLSSCSRYRSCYD 417
```

```
RESULT 27
US-09-854-845-25
; Sequence 25, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
```

```
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 697
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-25
```

```
Query Match 46.6%; Score 40.5; DB 2; Length 697;
Best Local Similarity 37.5%; Pred. No. 3.1e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;
```

```
QY 1 YSGPPSG-----ARRNCYE 15
| | | | | : | | | |
Db 493 YVGAPSGVIQLPLSSCSRYRSCYD 516
```

```
RESULT 28
US-09-854-845-23
; Sequence 23, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 702
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-23
```

```
Query Match 46.6%; Score 40.5; DB 2; Length 702;
Best Local Similarity 37.5%; Pred. No. 3.1e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;
```

```
QY 1 YSGPPSG-----ARRNCYE 15
| | | | | : | | | |
Db 493 YVGAPSGVIQLPLSSCSRYRSCYD 516
```

```
RESULT 29
US-09-854-845-45
; Sequence 45, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; PRIOR FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45
; LENGTH: 739
; TYPE: PRT
```

```
; ORGANISM: homo sapiens
US-09-854-845-45
      46.6%; Score 40.5; DB 2; Length 739;
Query Match      37.5%; Pred. No. 3.3e+02;
Best Local Similarity
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;

Qy 1 YSGPPSG-----ARRNCYE 15
    |||||
Db 394 YVGAPSGVIQLPLSSCSRYRSCYD 417

RESULT 30
US-09-854-845-43
; Sequence 43, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 43
; LENGTH: 744
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-43

Query Match      46.6%; Score 40.5; DB 2; Length 744;
Best Local Similarity      37.5%; Pred. No. 3.3e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;

Qy 1 YSGPPSG-----ARRNCYE 15
    |||||
Db 394 YVGAPSGVIQLPLSSCSRYRSCYD 417

RESULT 31
US-09-854-845-49
; Sequence 49, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 49
; LENGTH: 766
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-49

Query Match      46.6%; Score 40.5; DB 2; Length 766;
Best Local Similarity      37.5%; Pred. No. 3.4e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;
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Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;

Qy 1 YSGPPSG-----ARRNCYE 15
    |||||
Db 394 YVGAPSGVIQLPLSSCSRYRSCYD 417

RESULT 32
US-09-854-845-47
; Sequence 47, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 771
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-47

Query Match      46.6%; Score 40.5; DB 2; Length 771;
Best Local Similarity      37.5%; Pred. No. 3.4e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;

Qy 1 YSGPPSG-----ARRNCYE 15
    |||||
Db 394 YVGAPSGVIQLPLSSCSRYRSCYD 417

RESULT 33
US-09-854-845-29
; Sequence 29, Application US/09854845
; Patent No. 6750054
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Wang, Xiaoming
; APPLICANT: Scoville, John
; APPLICANT: Turner, C. Alexander Jr.
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Enco
; FILE REFERENCE: LEX-0177-USA
; CURRENT APPLICATION NUMBER: US/09/854,845
; CURRENT FILING DATE: 2001-05-14
; PRIOR APPLICATION NUMBER: US 60/205,274
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/208,893
; PRIOR FILING DATE: 2000-06-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 838
; TYPE: PRT
; ORGANISM: homo sapiens
US-09-854-845-29

Query Match      46.6%; Score 40.5; DB 2; Length 838;
Best Local Similarity      37.5%; Pred. No. 3.7e+02;
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;

Qy 1 YSGPPSG-----ARRNCYE 15
    |||||
Db 493 YVGAPSGVIQLPLSSCSRYRSCYD 516
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RESULT 34  
US-09-854-845-27  
; Sequence 27, Application US/09854845  
; Patent No. 6750054  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wang, Xiaoming  
; APPLICANT: Scoville, John  
; APPLICANT: Turner, C. Alexander Jr.  
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod  
; FILE REFERENCE: LEX-0177-USA  
; CURRENT APPLICATION NUMBER: US/09/854,845  
; CURRENT FILING DATE: 2001-05-14  
; PRIOR APPLICATION NUMBER: US 60/205,274  
; PRIOR FILING DATE: 2000-05-18  
; PRIOR APPLICATION NUMBER: US 60/208,893  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 50  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 27  
; LENGTH: 843  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-854-845-27

Query Match 46.6%; Score 40.5; DB 2; Length 843;  
Best Local Similarity 37.5%; Pred. No. 3.8e+02;  
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;  
Qy 1 YSGPPSG-----ARRRNCYE 15  
| | | | | : | | | | :  
Db 493 YVGAPSGVIQLPLSSCSRYRSCYD 516

RESULT 35  
US-09-854-845-33  
; Sequence 33, Application US/09854845  
; Patent No. 6750054  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wang, Xiaoming  
; APPLICANT: Scoville, John  
; APPLICANT: Turner, C. Alexander Jr.  
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod  
; FILE REFERENCE: LEX-0177-USA  
; CURRENT APPLICATION NUMBER: US/09/854,845  
; CURRENT FILING DATE: 2001-05-14  
; PRIOR APPLICATION NUMBER: US 60/205,274  
; PRIOR FILING DATE: 2000-05-18  
; PRIOR APPLICATION NUMBER: US 60/208,893  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 50  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 33  
; LENGTH: 865  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-854-845-33

Query Match 46.6%; Score 40.5; DB 2; Length 865;  
Best Local Similarity 37.5%; Pred. No. 3.9e+02;  
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;  
Qy 1 YSGPPSG-----ARRRNCYE 15  
| | | | | : | | | | :  
Db 493 YVGAPSGVIQLPLSSCSRYRSCYD 516

RESULT 36  
US-09-854-845-31  
; Sequence 31, Application US/09854845

Patent No. 6750054  
; GENERAL INFORMATION:  
; APPLICANT: Walke, D. Wade  
; APPLICANT: Wang, Xiaoming  
; APPLICANT: Scoville, John  
; APPLICANT: Turner, C. Alexander Jr.  
; TITLE OF INVENTION: No. 6750054el Human Semaphorin Homologs and Polynucleotides Encod  
; FILE REFERENCE: LEX-0177-USA  
; CURRENT APPLICATION NUMBER: US/09/854,845  
; CURRENT FILING DATE: 2001-05-14  
; PRIOR APPLICATION NUMBER: US 60/205,274  
; PRIOR FILING DATE: 2000-05-18  
; PRIOR APPLICATION NUMBER: US 60/208,893  
; PRIOR FILING DATE: 2000-06-02  
; NUMBER OF SEQ ID NOS: 50  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 31  
; LENGTH: 870  
; TYPE: PRT  
; ORGANISM: homo sapiens  
US-09-854-845-31

Query Match 46.6%; Score 40.5; DB 2; Length 870;  
Best Local Similarity 37.5%; Pred. No. 3.9e+02;  
Matches 9; Conservative 3; Mismatches 3; Indels 9; Gaps 1;  
Qy 1 YSGPPSG-----ARRRNCYE 15  
| | | | | : | | | | :  
Db 493 YVGAPSGVIQLPLSSCSRYRSCYD 516

RESULT 37  
US-09-252-991A-31073  
; Sequence 31073, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 31073  
; LENGTH: 158  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31073

Query Match 46.0%; Score 40; DB 2; Length 158;  
Best Local Similarity 88.9%; Pred. No. 86;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Qy 2 SGPPSGARR 10  
| | | | |  
Db 44 GPPSGARR 52

RESULT 38  
US-09-248-796A-15677  
; Sequence 15677, Application US/09248796A  
; Patent No. 6747137  
; GENERAL INFORMATION:  
; APPLICANT: Keith Weinstein et al  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBIC  
; FILE REFERENCE: 107196.132  
; CURRENT APPLICATION NUMBER: US/09/248,796A  
; CURRENT FILING DATE: 1999-02-12

; PRIOR APPLICATION NUMBER: US 60/074,725  
; PRIOR FILING DATE: 1998-02-13  
; PRIOR APPLICATION NUMBER: US 60/096,409  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 28208  
; SEQ ID NO 15677  
; LENGTH: 186  
; TYPE: PRT  
; ORGANISM: Candida albicans  
US-09-248-796A-15677

Query Match 46.0%; Score 40; DB 2; Length 186;  
Best Local Similarity 61.5%; Pred. No. 1e+02;  
Matches 8; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 3 GPPSGARRRNCYE 15  
   ||| ||||| :  
Db 5 GPPCGARRSLEYD 17

RESULT 39  
US-09-252-991A-29348  
; Sequence 29348, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 29348  
; LENGTH: 225  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-29348

Query Match 46.0%; Score 40; DB 2; Length 225;  
Best Local Similarity 63.6%; Pred. No. 1.2e+02;  
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRN 12  
   : ||| ||| |||  
Db 10 AGPPFPGRARN 20

RESULT 40  
US-09-252-991A-31733  
; Sequence 31733, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 31733  
; LENGTH: 273  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31733

Query Match 46.0%; Score 40; DB 2; Length 273;  
Best Local Similarity 63.6%; Pred. No. 1.5e+02;  
Matches 7; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRN 12  
   ||| : ||| |||  
Db 199 SAPPAACRRRN 209

Search completed: February 11, 2006, 08:20:01  
Job time : 48 secs

GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: February 11, 2006, 08:31:03 ; Search time 17 Seconds  
(without alignments)  
11.579 Million cell updates/sec

Title: SWOP-018-SBQ1

Perfect score: 87

Sequence: 1 ysgppsgarrncye 15

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 97014 seqs, 13122538 residues

Total number of hits satisfying chosen parameters: 97014

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:

- 1: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB pep.\*
- 2: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB pep.\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB pep.\*
- 4: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB pep.\*
- 5: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB pep.\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB pep.\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB pep.\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	47	54.0	271	7	US-11-169-041-170
2	43	49.4	346	6	US-10-755-092-19
3	39	44.8	391	6	US-10-878-556A-86
4	39	44.8	424	6	US-10-453-372-68
5	39	44.8	550	6	US-10-453-372-76
6	39	44.8	575	6	US-10-453-372-78
7	39	44.8	578	6	US-10-453-372-66
8	39	44.8	578	6	US-10-453-372-80
9	39	44.8	953	6	US-10-966-846-2
10	38	43.7	296	6	US-10-793-626-2968
11	38	43.7	349	7	US-11-130-821-2
12	38	43.7	374	7	US-11-080-991-16
13	38	43.7	426	7	US-11-024-959-449
14	38	43.7	565	6	US-10-055-877-228
15	38	43.7	613	6	US-10-182-016-38
16	38	43.7	891	7	US-11-182-016-38
17	37.5	43.1	45	7	US-11-123-896-183
18	37.5	43.1	72	7	US-11-123-896-182
19	37	42.5	456	5	US-09-978-360A-523
20	37	42.5	1390	7	US-11-063-343-35
21	36	41.4	44	7	US-11-123-896-147
22	36	41.4	71	7	US-11-123-896-146
23	36	41.4	99	6	US-10-887-540-9
24	36	41.4	108	6	US-10-689-742-40
25	36	41.4	250	6	US-10-821-234-1297

26	36	41.4	394	7	US-11-098-686-10747	Sequence 10747, A
27	36	41.4	486	6	US-10-877-346-50	Sequence 50, Appl
28	36	41.4	882	7	US-11-012-762-34	Sequence 34, Appl
29	36	41.4	1121	7	US-11-034-959-459	Sequence 459, App
30	35	40.2	138	6	US-10-667-295-176	Sequence 176, App
31	35	40.2	234	6	US-10-467-657-7422	Sequence 7422, Ap
32	35	40.2	449	7	US-11-112-882-70	Sequence 70, Appl
33	35	40.2	476	7	US-11-024-959-292	Sequence 292, App
34	35	40.2	491	6	US-10-641-678-65	Sequence 65, Appl
35	35	40.2	498	7	US-11-124-368A-254	Sequence 254, App
36	35	40.2	499	7	US-11-024-959-293	Sequence 293, App
37	35	40.2	513	6	US-10-821-234-1112	Sequence 1112, Ap
38	35	40.2	538	7	US-11-124-368A-252	Sequence 252, App
39	35	40.2	538	7	US-11-124-368A-255	Sequence 255, App
40	35	40.2	538	7	US-11-124-368A-256	Sequence 256, App
41	35	40.2	802	7	US-11-010-239-40	Sequence 40, Appl
42	35	40.2	824	7	US-11-090-617-657	Sequence 657, App
43	35	40.2	1096	6	US-10-995-561-710	Sequence 710, App
44	35	40.2	1788	6	US-10-877-346-60	Sequence 60, Appl
45	35	40.2	1992	7	US-11-069-834-58	Sequence 58, Appl

ALIGNMENTS

RESULT 1

US-11-169-041-170  
; Sequence 170, Application US/11169041  
; Publication No. US20060019284A1  
; GENERAL INFORMATION:  
; APPLICANT: Bristol-Myers Squibb Company  
; TITLE OF INVENTION: IDENTIFICATION OF POLYNUCLEOTIDES FOR PREDICTING ACTIVITY OF  
; TITLE OF INVENTION: COMPOUNDS THAT INTERACT WITH AND/OR MODULATE PROTEIN TYROSINE  
; TITLE OF INVENTION: KINASES AND/OR PROTEIN TYROSINE KINASE PATHWAYS IN LUNG CANCER  
; TITLE OF INVENTION: CELLS  
; FILE REFERENCE: 10001 NP  
; CURRENT APPLICATION NUMBER: US/11/169,041  
; CURRENT FILING DATE: 2005-06-28  
; PRIOR APPLICATION NUMBER: 60/584,405  
; PRIOR FILING DATE: 2004-06-30  
; NUMBER OF SEQ ID NOS: 527  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 170  
; LENGTH: 271  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-169-041-170

Query Match 54.0%; Score 47; DB 7; Length 271;  
Best Local Similarity 72.7%; Pred. No. 1.6;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 GPPSGARRRNC 13  
Db 87 GPPPGVRRRPC 97

RESULT 2

US-10-755-092-19  
; Sequence 19, Application US/10755092  
; Publication No. US20060021095A1  
; GENERAL INFORMATION:  
; APPLICANT: Koziel, Michael G.  
; Desai, Nalini M.  
; Lewis, Kelly S.  
; Kramer, Vance C.  
; Warren, Gregory W.  
; Evola, Stephen V.  
; Crossland, Lyle D.  
; Wright, Martha S.  
; Merlin, Ellis J.  
; Launis, Karen L.

TITLE OF INVENTION: SYNTHETIC DNA SEQUENCE HAVING ENHANCED

INSECTICIDAL ACTIVITY IN MAIZE

NUMBER OF SEQUENCES: 94  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Syngenta Biotechnology, Inc.  
STREET: 3054 Cornwallis Road  
CITY: Research Triangle Park  
STATE: NC  
COUNTRY: USA  
ZIP: 27709

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/755,092  
FILING DATE: 08-Jan-2004  
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/09/988,462  
FILING DATE: 20-Nov-2001  
APPLICATION NUMBER: US 09/547,422  
FILING DATE: 11-APR-2000  
APPLICATION NUMBER: US 08/459,504  
FILING DATE: 02-JUN-1995  
APPLICATION NUMBER: US 07/951,715  
FILING DATE: 25-SEP-1992  
APPLICATION NUMBER: US 07/772,027  
FILING DATE: 04-OCT-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: Meigs, J. Timothy  
REGISTRATION NUMBER: 38,241  
REFERENCE/DOCKET NUMBER: S-188051  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (919)541-8587  
TELEFAX: (919)541-8689  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 346 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 19:

US-10-755-092-19

Query Match 49.4%; Score 43; DB 6; Length 346;  
Best Local Similarity 42.9%; Pred. NO. 8.2;  
Matches 6; Conservative 3; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRNCYE 15  
: ||| ||| :  
Db 63 AAPPGARRRRCHQ 76

RESULT 3  
US-10-878-556A-86  
; Sequence 86, Application US/10878556A  
; Publication No. US20050266399A1  
; GENERAL INFORMATION:  
; APPLICANT: Hoffmann La-Roche Inc.  
; TITLE OF INVENTION: HCV regulated protein expression  
; FILE REFERENCE: 21762  
; CURRENT APPLICATION NUMBER: US/10/878,556A  
; CURRENT FILING DATE: 2004-06-28  
; NUMBER OF SEQ ID NOS: 199  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 86  
; LENGTH: 391  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
; PUBLICATION INFORMATION:  
; DATABASE ACCESSION NUMBER: sw hum/rog\_human  
; DATABASE ENTRY DATE: 1994-10-01

US-10-878-556A-86

Query Match 44.8%; Score 39; DB 6; Length 391;  
Best Local Similarity 53.3%; Pred. NO. 38;  
Matches 8; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 1 YSGPPSGARRNCYE 15  
: ||| ||| :  
Db 272 YSDHPGGSYRDSYE 286

RESULT 4  
US-10-453-372-68  
; Sequence 68, Application US/10453372  
; Publication No. US20060003323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT APPLICATION NUMBER: US/10/453,372  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01  
; PRIOR APPLICATION NUMBER: 09/823187  
; PRIOR FILING DATE: 2001-03-29  
; PRIOR APPLICATION NUMBER: 60/195792  
; PRIOR FILING DATE: 2000-03-10  
; PRIOR APPLICATION NUMBER: 09/839446  
; PRIOR FILING DATE: 2001-03-19  
; PRIOR APPLICATION NUMBER: 60/199476  
; PRIOR FILING DATE: 2000-03-25  
; PRIOR APPLICATION NUMBER: 09/863776  
; PRIOR FILING DATE: 2001-05-23  
; PRIOR APPLICATION NUMBER: 60/208263  
; PRIOR FILING DATE: 2000-05-31  
; PRIOR APPLICATION NUMBER: 09/939398  
; PRIOR FILING DATE: 2001-08-24  
; PRIOR APPLICATION NUMBER: 60/227800  
; PRIOR FILING DATE: 2000-08-25  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 1609  
; SOFTWARE: CuraSeqList version 0.1  
; SEQ ID NO 68  
; LENGTH: 424  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-453-372-68

Query Match 44.8%; Score 39; DB 6; Length 424;  
Best Local Similarity 50.0%; Pred. NO. 40;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNC 13  
: ||| ||| :  
Db 408 AGPELGSRRKKC 419

RESULT 5  
US-10-453-372-76  
; Sequence 76, Application US/10453372  
; Publication No. US20060003323A1  
; GENERAL INFORMATION:  
; APPLICANT: Alsbrook, et al.  
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
; FILE REFERENCE: 21402-589 A  
; CURRENT APPLICATION NUMBER: US/10/453,372  
; CURRENT FILING DATE: 2003-06-03  
; PRIOR APPLICATION NUMBER: 09/789390  
; PRIOR FILING DATE: 2001-02-23  
; PRIOR APPLICATION NUMBER: 60/185967  
; PRIOR FILING DATE: 2000-03-01

PRIOR APPLICATION NUMBER: 09/823187  
PRIOR FILING DATE: 2001-03-29  
PRIOR APPLICATION NUMBER: 60/195792  
PRIOR FILING DATE: 2000-03-10  
PRIOR APPLICATION NUMBER: 09/839446  
PRIOR FILING DATE: 2001-03-19  
PRIOR APPLICATION NUMBER: 60/199476  
PRIOR FILING DATE: 2000-03-25  
PRIOR APPLICATION NUMBER: 09/863776  
PRIOR FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: 60/208263  
PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: 09/939398  
PRIOR FILING DATE: 2001-08-24  
PRIOR APPLICATION NUMBER: 60/227800  
PRIOR FILING DATE: 2000-08-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1609  
SOFTWARE: CuraseqList version 0.1  
SEQ ID NO 76  
LENGTH: 550  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-453-372-76

Query Match 44.8%; Score 39; DB 6; Length 550;  
Best Local Similarity 50.0%; Pred. No. 50;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRNC 13  
: || | : || : |  
Db 534 AGPELGSRRKKC 545

RESULT 6  
US-10-453-372-78  
Sequence 78, Application US/10453372  
Publication No. US20060003323A1  
GENERAL INFORMATION:  
APPLICANT: Alsbrook, et al.  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
FILE REFERENCE: 21402-589 A  
CURRENT APPLICATION NUMBER: US/10/453,372  
CURRENT FILING DATE: 2003-06-03  
PRIOR APPLICATION NUMBER: 09/789390  
PRIOR FILING DATE: 2001-02-23  
PRIOR APPLICATION NUMBER: 60/185967  
PRIOR FILING DATE: 2000-03-01  
PRIOR APPLICATION NUMBER: 09/823187  
PRIOR FILING DATE: 2001-03-29  
PRIOR APPLICATION NUMBER: 60/195792  
PRIOR FILING DATE: 2000-03-10  
PRIOR APPLICATION NUMBER: 09/839446  
PRIOR FILING DATE: 2001-03-19  
PRIOR APPLICATION NUMBER: 60/199476  
PRIOR FILING DATE: 2000-03-25  
PRIOR APPLICATION NUMBER: 09/863776  
PRIOR FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: 60/208263  
PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: 09/939398  
PRIOR FILING DATE: 2001-08-24  
PRIOR APPLICATION NUMBER: 60/227800  
PRIOR FILING DATE: 2000-08-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1609  
SOFTWARE: CuraseqList version 0.1  
SEQ ID NO 78  
LENGTH: 575  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-453-372-78

Query Match 44.8%; Score 39; DB 6; Length 575;  
Best Local Similarity 50.0%; Pred. No. 52;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRNC 13  
: || | : || : |  
Db 559 AGPELGSRRKKC 570

RESULT 7  
US-10-453-372-66  
Sequence 66, Application US/10453372  
Publication No. US20060003323A1  
GENERAL INFORMATION:  
APPLICANT: Alsbrook, et al.  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
FILE REFERENCE: 21402-589 A  
CURRENT APPLICATION NUMBER: US/10/453,372  
CURRENT FILING DATE: 2003-06-03  
PRIOR APPLICATION NUMBER: 09/789390  
PRIOR FILING DATE: 2001-02-23  
PRIOR APPLICATION NUMBER: 60/185967  
PRIOR FILING DATE: 2000-03-01  
PRIOR APPLICATION NUMBER: 09/823187  
PRIOR FILING DATE: 2001-03-29  
PRIOR APPLICATION NUMBER: 60/195792  
PRIOR FILING DATE: 2000-03-10  
PRIOR APPLICATION NUMBER: 09/839446  
PRIOR FILING DATE: 2001-03-19  
PRIOR APPLICATION NUMBER: 60/199476  
PRIOR FILING DATE: 2000-03-25  
PRIOR APPLICATION NUMBER: 09/863776  
PRIOR FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: 60/208263  
PRIOR FILING DATE: 2000-05-31  
PRIOR APPLICATION NUMBER: 09/939398  
PRIOR FILING DATE: 2001-08-24  
PRIOR APPLICATION NUMBER: 60/227800  
PRIOR FILING DATE: 2000-08-25  
Remaining Prior Application data removed - See File Wrapper or PALM.  
NUMBER OF SEQ ID NOS: 1609  
SOFTWARE: CuraseqList version 0.1  
SEQ ID NO 66  
LENGTH: 578  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-453-372-66

Query Match 44.8%; Score 39; DB 6; Length 578;  
Best Local Similarity 50.0%; Pred. No. 53;  
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY 2 SGPPSGARRNC 13  
: || | : || : |  
Db 562 AGPELGSRRKKC 573

RESULT 8  
US-10-453-372-80  
Sequence 80, Application US/10453372  
Publication No. US20060003323A1  
GENERAL INFORMATION:  
APPLICANT: Alsbrook, et al.  
TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHOD  
FILE REFERENCE: 21402-589 A  
CURRENT APPLICATION NUMBER: US/10/453,372  
CURRENT FILING DATE: 2003-06-03  
PRIOR APPLICATION NUMBER: 09/789390  
PRIOR FILING DATE: 2001-02-23  
PRIOR APPLICATION NUMBER: 60/185967  
PRIOR FILING DATE: 2000-03-01  
PRIOR APPLICATION NUMBER: 09/823187  
PRIOR FILING DATE: 2001-03-29

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/ PRIOR APPLICATION NUMBER: 60/195792
/ PRIOR FILING DATE: 2000-03-10
/ PRIOR APPLICATION NUMBER: 09/839446
/ PRIOR FILING DATE: 2001-03-19
/ PRIOR APPLICATION NUMBER: 60/199476
/ PRIOR FILING DATE: 2000-03-25
/ PRIOR APPLICATION NUMBER: 09/863776
/ PRIOR FILING DATE: 2001-05-23
/ PRIOR APPLICATION NUMBER: 60/208263
/ PRIOR FILING DATE: 2000-05-31
/ PRIOR APPLICATION NUMBER: 09/939398
/ PRIOR FILING DATE: 2001-08-24
/ PRIOR APPLICATION NUMBER: 60/227800
/ PRIOR FILING DATE: 2000-08-25
/ Remaining Prior Application data removed - See File Wrapper or PALM.
/ NUMBER OF SEQ ID NOS: 1609
/ SOFTWARE: CuraSeqList version 0.1
/ SEQ ID NO 80
/ LENGTH: 578
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-453-372-80

Query Match          44.8%; Score 39; DB 6; Length 578;
Best Local Similarity 50.0%; Pred. No. 53;
Matches 6; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

QY      2 SGPPSGARRNC 13
      ||| ||| |
Db      562 AGPELGSRRKCC 573

RESULT 9
US-10-966-846-2
/ Sequence 2, Application US/10966846
/ Publication No. US20050287612A1
/ GENERAL INFORMATION:
/ APPLICANT: Bertin, John
/ APPLICANT: Philpott, Dana
/ APPLICANT: Sansonetti, Philippe
/ APPLICANT: Girardin, Stephen
/ TITLE OF INVENTION: CARD-4 MOLECULES AND USES THEREOF
/ FILE REFERENCE: 07334-371004
/ CURRENT APPLICATION NUMBER: US/10/966,846
/ CURRENT FILING DATE: 2004-10-15
/ PRIOR APPLICATION NUMBER: US 10/706,857
/ PRIOR FILING DATE: 2003-11-12
/ PRIOR APPLICATION NUMBER: US 10/352,381
/ PRIOR FILING DATE: 2003-01-27
/ PRIOR APPLICATION NUMBER: US 10/154,485
/ PRIOR FILING DATE: 2002-05-22
/ PRIOR APPLICATION NUMBER: US 10/027,881
/ PRIOR FILING DATE: 2001-12-20
/ PRIOR APPLICATION NUMBER: US 60/258,724
/ PRIOR FILING DATE: 2000-12-29
/ NUMBER OF SEQ ID NOS: 3
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 2
/ LENGTH: 953
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-10-966-846-2

Query Match          44.8%; Score 39; DB 6; Length 953;
Best Local Similarity 54.5%; Pred. No. 80;
Matches 6; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY      4 PPSGARRNCY 14
      ||| ||| |
Db      549 PPAGAATTSCY 559

RESULT 10
US-10-793-626-2968
/ Sequence 2968, Application US/10793626
/ Publication No. US20050255478A1
/ GENERAL INFORMATION:
/ APPLICANT: KIMMERLY, WILLIAM JOHN
/ TITLE OF INVENTION: STAPHYLOCOCCUS EPIDERMIDIS NUCLEIC ACIDS AND PROTEINS
/ FILE REFERENCE: PU3480US
/ CURRENT APPLICATION NUMBER: US/10/793,626
/ CURRENT FILING DATE: 2004-03-04
/ PRIOR APPLICATION NUMBER: 60/164,258
/ PRIOR FILING DATE: 1999-11-09
/ NUMBER OF SEQ ID NOS: 4472
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2968
/ LENGTH: 296
/ TYPE: PRT
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: synthetic
/ OTHER INFORMATION: amino acid sequence
US-10-793-626-2968

Query Match          43.7%; Score 38; DB 6; Length 296;
Best Local Similarity 50.0%; Pred. No. 42;
Matches 6; Conservative 2; Mismatches 4; Indels 0; Gaps 0;

QY      1 YSGPPSGARRRN 12
      ||| ||| |
Db      33 YTGAPQNTTRRN 44

RESULT 11
US-11-130-821-2
/ Sequence 2, Application US/11130821
/ Publication No. US20060019275A1
/ GENERAL INFORMATION:
/ APPLICANT: Zuker, Charles S.
/ APPLICANT: Adler, Jon Elliot
/ APPLICANT: Lindemeier, Juergen
/ APPLICANT: Cowan, David
/ APPLICANT: The Regents of the University of California
/ TITLE OF INVENTION: Nucleic Acids Encoding Proteins Involved in Sensory
/ TITLE OF INVENTION: Transduction
/ FILE REFERENCE: 02307E-084210US
/ CURRENT APPLICATION NUMBER: US/11/130,821
/ CURRENT FILING DATE: 2005-05-16
/ PRIOR APPLICATION NUMBER: US/09/361,630
/ PRIOR FILING DATE: 1999-07-27
/ PRIOR APPLICATION NUMBER: US 60/094,464
/ PRIOR FILING DATE: 1998-07-28
/ NUMBER OF SEQ ID NOS: 24
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 2
/ LENGTH: 349
/ TYPE: PRT
/ ORGANISM: Mus sp.
/ FEATURE:
/ OTHER INFORMATION: mouse taste cell polypeptide (TCP) #1 amino acid
/ OTHER INFORMATION: sequence
US-11-130-821-2

Query Match          43.7%; Score 38; DB 7; Length 349;
Best Local Similarity 66.7%; Pred. No. 49;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY      5 PSGARRNC 13
      ||| ||| |
Db      312 PAGRRPNC 320

RESULT 12
US-11-080-991-16
/ Sequence 16, Application US/11080991
```

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; Publication No. US20050266437A1
; GENERAL INFORMATION:
; APPLICANT: Veiby, Petter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/11/080,991
; CURRENT FILING DATE: 2005-03-11
; PRIOR APPLICATION NUMBER: US/10/176,847
; PRIOR FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 16
; LENGTH: 374
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-080-991-16

Query Match      43.7%; Score 38; DB 7; Length 374;
Best Local Similarity 46.7%; Pred. No. 52;
Matches 7; Conservative 2; Mismatches 6; Indels 0; Gaps 0;

Qy      1 YSGPPSGARRNCVE 15
Db      34 YPGPARGARDTTSFE 48

RESULT 13
US-11-024-959-449
; Sequence 449, Application US/11024959
; Publication No. US20060010516A1
; GENERAL INFORMATION:
; APPLICANT: FORSTER, RICHARD L.
; APPLICANT: CONNETT, MARIE B.
; APPLICANT: EMERSON, SARAH JANE
; APPLICANT: GRIGOR, MURRAY ROBERT
; APPLICANT: HIGGINS, COLLEEN M.
; APPLICANT: LUND, STEVEN TROY
; APPLICANT: MAGUSIN, ANDREAS
; APPLICANT: KODRZYCKI, BOB
; TITLE OF INVENTION: CELL CYCLE GENES AND RELATED METHODS
; FILE REFERENCE: 044483-0360
; CURRENT APPLICATION NUMBER: US/11/024,959
; CURRENT FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: 60/533,036
; PRIOR FILING DATE: 2003-12-30
; NUMBER OF SEQ ID NOS: 782
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 449
; LENGTH: 426
; TYPE: PRT
; ORGANISM: Pinus radiata
US-11-024-959-449

Query Match      43.7%; Score 38; DB 7; Length 426;
Best Local Similarity 66.7%; Pred. No. 58;
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy      2 SGPPSGARR 10
Db      74 AGPPGGR 82

RESULT 14
US-10-055-877-228
; Sequence 228, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Velizar

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; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gerlach, Valerie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Ratelli, Luca
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Andrew, David
; APPLICANT: Mezes, Peter
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Catherine
; APPLICANT: Eissen, Andrew
; APPLICANT: Wolenc, Adam
; APPLICANT: Baumgartner, Jason
; APPLICANT: Shimkets, Richard
; APPLICANT: Gusev, Vladimir
; APPLICANT: Vernhet, Corine
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Pena, Carol
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ference
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
; FILE REFERENCE: 21402-251
; CURRENT APPLICATION NUMBER: US/10/055,877
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262,892
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,598
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/263,799
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/275,927
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 228
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-055-877-228

Query Match      43.7%; Score 38; DB 6; Length 565;
Best Local Similarity 46.2%; Pred. No. 74;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy      2 SGPPSGARRNCY 14
Db      487 AGPPIAGLRNCF 499

RESULT 15
US-10-055-877-227
; Sequence 227, Application US/10055877
; Publication No. US20050288241A1
; GENERAL INFORMATION:
; APPLICANT: DeCristofaro, Marc

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; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Miller, Charles
; APPLICANT: Tchernev, Velizar
; APPLICANT: Zhong, Mei
; APPLICANT: Anderson, David
; APPLICANT: Ballinger, Robert
; APPLICANT: Gerlach, Valerie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Ratelli, Luca
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Guo, Xiaojia
; APPLICANT: Zernhusen, Bryan
; APPLICANT: Andrew, David
; APPLICANT: Mezes, Peter
; APPLICANT: Patturajan, Meera
; APPLICANT: Burgess, Catherine
; APPLICANT: Eisen, Andrew
; APPLICANT: Wolenc, Adam
; APPLICANT: Baumgartner, Jason
; APPLICANT: Shimkets, Richard
; APPLICANT: Gusev, Vladimir
; APPLICANT: Vernet, Corine
; APPLICANT: Taupier Jr., Raymond
; APPLICANT: Pena, Carol
; APPLICANT: Shenoy, Suresh
; APPLICANT: Li, Li
; APPLICANT: Casman, Stacie
; APPLICANT: Boldog, Ferenc
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoded Thereby
; FILE REFERENCE: 21402-251
; CURRENT APPLICATION NUMBER: US/10/055,877
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: 60/262,892
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: 60/263,598
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 60/263,799
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 60/264,117
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,139
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/264,478
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/263,351
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: 60/272,870
; PRIOR FILING DATE: 2001-03-02
; PRIOR APPLICATION NUMBER: 60/275,990
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/275,927
; PRIOR FILING DATE: 2001-03-14
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 512
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 227
; LENGTH: 613
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-055-877-227

Query Match 43.7%; Score 38; DB 6; Length 613;
Best Local Similarity 46.2%; Pred. No. 79;
Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

Qy 2 SGPPSGARRRNCY 14
Db 535 AGPIAGLLRNCF 547

RESULT 16
US-11-182-016-38
; Sequence 38, Application US/11182016
; APPLICANT: Simmons, Carl R.
; GENERAL INFORMATION:
; APPLICANT: SUGEN, INC.
; TITLE OF INVENTION: TYROSINE KINASE SUBSTRATE (TKS) PROTEINS
; FILE REFERENCE: 038602/0102
; CURRENT APPLICATION NUMBER: US/11/182,016
; CURRENT FILING DATE: 2005-07-15
; PRIOR APPLICATION NUMBER: US/09/958,359
; PRIOR FILING DATE: 2002-02-05
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 38
; LENGTH: 891
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Tks 202
US-11-182-016-38

Query Match 43.7%; Score 38; DB 7; Length 891;
Best Local Similarity 77.8%; Pred. No. 1.1e+02;
Matches 7; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GPPSGARRR 11
Db 773 GAPSGRRR 781

RESULT 17
US-11-123-896-183
; Sequence 183, Application US/11123896
; Publication No. US20050273881A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro Acevedo, Pedro A.
; APPLICANT: Harvell, Leslie
; APPLICANT: Cahoon, Rebecca
; APPLICANT: McCutchen, Billy Fred
; APPLICANT: Lu, Albert
; APPLICANT: Herrmann, Rafael
; APPLICANT: Wong, James
; TITLE OF INVENTION: Defensin Polynucleotides and Methods of
; FILE REFERENCE: 35718/246703
; CURRENT APPLICATION NUMBER: US/11/123,896
; CURRENT FILING DATE: 2005-05-06
; PRIOR APPLICATION NUMBER: 60/300,152
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/300,241
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 469
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 183
; LENGTH: 45
; TYPE: PRT
; ORGANISM: Taraxacum kok-saghyz
US-11-123-896-183

Query Match 43.1%; Score 37.5; DB 7; Length 45;
Best Local Similarity 60.0%; Pred. No. 10;
Matches 9; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

Qy 2 SGPPSGARRR-NCYE 15
Db 29 SGKCDGVRRCCTCYE 43

RESULT 18
US-11-123-896-182
; Sequence 182, Application US/11123896
; Publication No. US20050273881A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.

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; APPLICANT: Navarro Acevedo, Pedro A.
; APPLICANT: Harvell, Leslie
; APPLICANT: Cahoon, Rebecca
; APPLICANT: McCutchen, Billy Fred
; APPLICANT: Lu, Albert
; APPLICANT: Hermann, Rafael
; APPLICANT: Wong, James
; TITLE OF INVENTION: Defensin Polynucleotides and Methods of
; FILE REFERENCE: 35718/246703
; CURRENT FILING DATE: 2005-05-06
; PRIOR APPLICATION NUMBER: 60/300,152
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/300,241
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 469
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 182
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Taraxacum kok-saghyz
US-11-123-896-182

Query Match      43.1%; Score 37.5; DB 7; Length 72;
Best Local Similarity 60.0%; Pred. No. 15;
Matches 9; Conservative 0; Mismatches 5; Indels 1; Gaps 1;

QY      2  SGPSPGARRR-NCYE 15
Db      56  SGKCDGVRRRCTCYE 70

RESULT 19
US-09-978-360A-523
; Sequence 523, Application US/09978360A
; Publication No. US20060009633A9
; GENERAL INFORMATION:
; APPLICANT: Edwards, Jean-Baptiste Dumas Milne
; APPLICANT: Duclert, Aymeric
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Jobert, Severin
; APPLICANT: Clusel, Catherine
; TITLE OF INVENTION: Complementary DNA's Encoding Proteins with Signal Peptides
; FILE REFERENCE: 56.USA.CIP
; CURRENT APPLICATION NUMBER: US/09/978.360A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: US 60/066,677
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: US 60/069,957
; PRIOR FILING DATE: 1997-12-17
; PRIOR APPLICATION NUMBER: US 60/074,121
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: US 60/081,563
; PRIOR FILING DATE: 1998-04-13
; PRIOR APPLICATION NUMBER: US 60/096,116
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: US 60/099,273
; PRIOR FILING DATE: -09-04
; PRIOR APPLICATION NUMBER: US 09/191,997
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 09/215,435
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: PCT/IB98/02122
; PRIOR FILING DATE: 1998-12-17
; PRIOR APPLICATION NUMBER: US 09/247,155
; PRIOR FILING DATE: 1999-02-09
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 810
; SOFTWARE: Patent.pm
; SEQ ID NO 523
; LENGTH: 456
; TYPE: PRT
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```
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -22..-1
US-09-978-360A-523

Query Match      42.5%; Score 37; DB 5; Length 456;
Best Local Similarity 70.0%; Pred. No. 88;
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY      1  YSGPPSGARR 10
Db      259  YSGPSSAAQR 268

RESULT 20
US-11-063-343-35
; Sequence 35, Application US/11063343
; Publication No. US20050272061A1
; GENERAL INFORMATION:
; APPLICANT: Petroziello, Joseph M.
; APPLICANT: Carter, Paul
; TITLE OF INVENTION: Expression Profiling in Non-Small Cell
; FILE REFERENCE: 2681-1-003N
; CURRENT APPLICATION NUMBER: US/11/063,343
; CURRENT FILING DATE: 2005-02-22
; PRIOR APPLICATION NUMBER: 60/546,019
; PRIOR FILING DATE: 2004-02-19
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 1390
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-063-343-35

Query Match      42.5%; Score 37; DB 7; Length 1390;
Best Local Similarity 72.7%; Pred. No. 2.3e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1  YSGPPSGARR 11
Db      322  YSGPASPAPRR 332

RESULT 21
US-11-123-896-147
; Sequence 147, Application US/11123896
; Publication No. US20050273881A1
; GENERAL INFORMATION:
; APPLICANT: Simmons, Carl R.
; APPLICANT: Navarro Acevedo, Pedro A.
; APPLICANT: Harvell, Leslie
; APPLICANT: Cahoon, Rebecca
; APPLICANT: McCutchen, Billy Fred
; APPLICANT: Lu, Albert
; APPLICANT: Herrmann, Rafael
; APPLICANT: Wong, James
; TITLE OF INVENTION: Defensin Polynucleotides and Methods of
; FILE REFERENCE: 35718/246703
; CURRENT APPLICATION NUMBER: US/11/123,896
; CURRENT FILING DATE: 2005-05-06
; PRIOR APPLICATION NUMBER: 60/300,152
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: 60/300,241
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 469
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 147
; LENGTH: 44
; TYPE: PRT
```

ORGANISM: Taraxacum kok-saghyz  
US-11-123-896-147

Query Match 41.4%; Score 36; DB 7; Length 44;  
Best Local Similarity 50.0%; Pred. No. 17;  
Matches 7; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
||| ||| |||  
DB 29 SGKCDGVRCTCYK 42

RESULT 22  
US-11-123-896-146  
; Sequence 146, Application US/11123896  
; Publication No. US20050273881A1  
; GENERAL INFORMATION:  
; APPLICANT: Simmons, Carl R.  
; APPLICANT: Navarro Acevedo, Pedro A.  
; APPLICANT: Harvell, Leslie  
; APPLICANT: Cahoon, Rebecca  
; APPLICANT: McCutchen, Billy Fred  
; APPLICANT: Lu, Albert  
; APPLICANT: Herrmann, Rafael  
; APPLICANT: Wong, James  
; TITLE OF INVENTION: Defensin Polynucleotides and Methods of  
; TITLE OF INVENTION: Use  
; FILE REFERENCE: 35718/246703  
; CURRENT APPLICATION NUMBER: US/11/123,896  
; CURRENT FILING DATE: 2005-05-06  
; PRIOR APPLICATION NUMBER: 60/300,152  
; PRIOR FILING DATE: 2001-06-22  
; PRIOR APPLICATION NUMBER: 60/300,241  
; PRIOR FILING DATE: 2001-06-22  
; NUMBER OF SEQ ID NOS: 469  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 146  
; LENGTH: 71  
; TYPE: PRT  
; ORGANISM: Taraxacum kok-saghyz  
US-11-123-896-146

Query Match 41.4%; Score 36; DB 7; Length 71;  
Best Local Similarity 50.0%; Pred. No. 26;  
Matches 7; Conservative 1; Mismatches 6; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCYE 15  
||| ||| |||  
DB 56 SGKCDGVRCTCYK 69

RESULT 23  
US-10-887-540-9  
; Sequence 9, Application US/10887540  
; Publication No. US20060008876A1  
; GENERAL INFORMATION:  
; APPLICANT: El Shami, A. Said  
; APPLICANT: Campbell, Bruce A.  
; APPLICANT: Sustarsic, Dennis  
; APPLICANT: Sahakian, Niver P.  
; TITLE OF INVENTION: ME-5, ME-2, and BEP2: Human Protein Antigens Reactive with  
; TITLE OF INVENTION: Autoantibodies Present in the Serum of Women Suffering from  
; TITLE OF INVENTION: Endometriosis  
; FILE REFERENCE: 107-226  
; CURRENT APPLICATION NUMBER: US/10/887,540  
; CURRENT FILING DATE: 2004-07-07  
; NUMBER OF SEQ ID NOS: 9  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 9  
; LENGTH: 99  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-887-540-9

Query Match 41.4%; Score 36; DB 6; Length 99;  
Best Local Similarity 66.7%; Pred. No. 34;  
Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 2 SGPPSGARR 10  
||| ||| |||  
DB 85 SGPPPGSQR 93

RESULT 24  
US-10-689-742-40  
; Sequence 40, Application US/10689742  
; Publication No. US20050250180A1  
; GENERAL INFORMATION:  
; APPLICANT: Jacobs, Kenneth  
; APPLICANT: McCoy, John M  
; APPLICANT: LaVallie, Edward R  
; APPLICANT: Racie, Lisa A  
; APPLICANT: Evans, Cheryl  
; APPLICANT: Merberg, David  
; APPLICANT: Treacy, Maurice  
; APPLICANT: Spaulding, Vikki  
; TITLE OF INVENTION: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM  
; FILE REFERENCE: 00766.000091.10  
; CURRENT APPLICATION NUMBER: US/10/689,742  
; CURRENT FILING DATE: 2003-10-22  
; PRIOR APPLICATION NUMBER: 09/746,783  
; PRIOR FILING DATE: 2000-12-21  
; NUMBER OF SEQ ID NOS: 231  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 40  
; LENGTH: 108  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-689-742-40

Query Match 41.4%; Score 36; DB 6; Length 108;  
Best Local Similarity 54.5%; Pred. No. 37;  
Matches 6; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 4 PPSGARRRNCY 14  
||| ||| |||  
DB 79 PPTRAARGCY 89

RESULT 25  
US-10-821-234-1297  
; Sequence 1297, Application US/10821234  
; Publication No. US20050255114A1  
; GENERAL INFORMATION:  
; APPLICANT: Labat, Ivan  
; APPLICANT: Stache-Crain, Birgit  
; APPLICANT: Andarmani, Susan  
; APPLICANT: Tang, Y. Tom  
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia  
; FILE REFERENCE: 821A  
; CURRENT APPLICATION NUMBER: US/10/821,234  
; CURRENT FILING DATE: 2004-04-07  
; PRIOR APPLICATION NUMBER: US 60/462,047  
; PRIOR FILING DATE: 2003-04-07  
; NUMBER OF SEQ ID NOS: 1704  
; SOFTWARE: pt\_seq\_genes Version 1.0  
; SEQ ID NO 1297  
; LENGTH: 250  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-821-234-1297

Query Match 41.4%; Score 36; DB 6; Length 250;  
Best Local Similarity 85.7%; Pred. No. 75;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 YSGPPSG 7  
| | | | |  
Db 79 YGPPSG 85

## RESULT 26

US-11-098-686-10747  
; Sequence 10747, Application US/11098686  
; Publication No. US20060024696A1  
; GENERAL INFORMATION:  
; APPLICANT: Kapur, Vivek and Gebhart, Connie J.  
; TITLE OF INVENTION: NUCLEIC ACID AND POLYPEPTIDE SEQUENCES  
; FILE OF INVENTION: FROM LAWSONIA INTRACELLULARIS AND METHODS OF USING  
; FILE REFERENCE: 09531-128001  
; CURRENT APPLICATION NUMBER: US/11/098,686  
; CURRENT FILING DATE: 2005-04-04  
; PRIOR APPLICATION NUMBER: PCT/US03/31318  
; PRIOR FILING DATE: 2003-10-01  
; PRIOR APPLICATION NUMBER: US 60/416,395  
; PRIOR FILING DATE: 2002-10-04  
; NUMBER OF SEQ ID NOS: 11433  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 10747  
; LENGTH: 394  
; TYPE: PRT  
; ORGANISM: Lawsonia intracellularis  
US-11-098-686-10747

Query Match 41.4%; Score 36; DB 7; Length 394;  
Best Local Similarity 85.7%; Pred. No. 1.1e+02;  
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 YSGPPSG 7  
| | | | |  
Db 10 YSGPPSG 16

## RESULT 27

US-10-877-346-50  
; Sequence 50, Application US/10877346  
; Publication No. US20060014153A1  
; GENERAL INFORMATION:  
; APPLICANT: Gerlach, Valerie L.  
; APPLICANT: MacDougall, John R.  
; APPLICANT: Smithson, Glennda  
; APPLICANT: Millet, Isabelle  
; APPLICANT: Stone, David  
; APPLICANT: Gunther, Erik  
; APPLICANT: Ellerman, Karen  
; APPLICANT: Grosse, William M.  
; APPLICANT: Alsobrook II, John P.  
; APPLICANT: Lepley, Denise M.  
; APPLICANT: Burgess, Catherine E.  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Kekuda, Ramesh  
; APPLICANT: Spytek, Kimberly A.  
; APPLICANT: Leach, Martin D.  
; APPLICANT: Shimkets, Richard A.  
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-124  
; CURRENT APPLICATION NUMBER: US/10/877,346  
; CURRENT FILING DATE: 2004-06-25  
; PRIOR APPLICATION NUMBER: US/09/964,956  
; PRIOR FILING DATE: 2001-09-26  
; PRIOR APPLICATION NUMBER: 60/235,631  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,633  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/235,808  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,064  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,065

; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,066  
; PRIOR FILING DATE: 2000-09-27  
; PRIOR APPLICATION NUMBER: 60/236,135  
; PRIOR FILING DATE: 2000-09-28  
; PRIOR APPLICATION NUMBER: 60/237,434  
; PRIOR FILING DATE: 2000-10-03  
; PRIOR APPLICATION NUMBER: 60/238,321  
; PRIOR FILING DATE: 2000-10-05  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 127  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 50  
; LENGTH: 486  
; TYPE: PRT  
; ORGANISM: Gallus gallus  
US-10-877-346-50

Query Match 41.4%; Score 36; DB 6; Length 486;  
Best Local Similarity 75.0%; Pred. No. 1.3e+02;  
Matches 6; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 2 SGPPSGAR 9  
: | | | | |  
Db 13 AGPPGGAR 20

## RESULT 28

US-11-012-762-34  
; Sequence 34, Application US/11012762  
; Publication No. US20050244815A1  
; GENERAL INFORMATION:  
; APPLICANT: Georgia State University Research Foundation, Inc.  
; TITLE OF INVENTION: Compositions and Methods for Viral Resistance Genes  
; FILE REFERENCE: GSUL.PCT  
; CURRENT APPLICATION NUMBER: US/11/012,762  
; CURRENT FILING DATE: 2004-12-15  
; PRIOR APPLICATION NUMBER: PCT/US03/19300  
; PRIOR FILING DATE: 2003-06-19  
; PRIOR APPLICATION NUMBER: US 60/390,046  
; PRIOR FILING DATE: 2002-06-19  
; NUMBER OF SEQ ID NOS: 133  
; SOFTWARE: PatentIn version 3.2  
; SEQ ID NO 34  
; LENGTH: 882  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-11-012-762-34

Query Match 41.4%; Score 36; DB 7; Length 882;  
Best Local Similarity 70.0%; Pred. No. 2.2e+02;  
Matches 7; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 2 SGPPSGARR 11  
| | | | |  
Db 660 SGPNRGAKRR 669

## RESULT 29

US-11-024-959-459  
; Sequence 459, Application US/11024959  
; Publication No. US20060010516A1  
; GENERAL INFORMATION:  
; APPLICANT: FORSTER, RICHARD L.  
; APPLICANT: CONNETT, MARIE B.  
; APPLICANT: EMERSON, SARAH JANE  
; APPLICANT: GRIGOR, MURRAY ROBERT  
; APPLICANT: HIGGINS, COLLEEN M.  
; APPLICANT: LUND, STEVEN TROY  
; APPLICANT: MAGUSIN, ANDREAS  
; APPLICANT: KODRZYCKI, BOB  
; TITLE OF INVENTION: CELL CYCLE GENES AND RELATED METHODS  
; FILE REFERENCE: 044463-0360

; CURRENT APPLICATION NUMBER: US/11/024,959  
; CURRENT FILING DATE: 2004-12-30  
; PRIOR APPLICATION NUMBER: 60/533,036  
; PRIOR FILING DATE: 2003-12-30  
; NUMBER OF SEQ ID NOS: 782  
; SOFTWARE: Patentin version 3.3  
; SEQ ID NO 459  
; LENGTH: 1121  
; TYPE: PRT  
; ORGANISM: Pinus radiata  
US-11-024-959-459

Query Match 41.4%; Score 36; DB 7; Length 1121;  
Best Local Similarity 85.7%; Pred. No. 2.7e+02;  
Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 3 GPPSGAR 9  
DB 205 GPPNGAR 211

RESULT 30  
US-10-667-295-176  
; Sequence 176, Application US/10667295  
; Publication No. US20050257293A1  
; GENERAL INFORMATION:  
; APPLICANT: Mascia, Peter  
; TITLE OF INVENTION: BIOLOGICAL CONTAINMENT SYSTEM  
; FILE REFERENCE: 11696-047001  
; CURRENT APPLICATION NUMBER: US/10/667,295  
; CURRENT FILING DATE: 2003-09-17  
; PRIOR APPLICATION NUMBER: US 60/411,823  
; PRIOR FILING DATE: 2002-09-17  
; NUMBER OF SEQ ID NOS: 263  
; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 176  
; LENGTH: 138  
; TYPE: PRT  
; ORGANISM: Triticum aestivum  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (1)...(138)  
; OTHER INFORMATION: Ceres Seq. ID no. 4390461  
US-10-667-295-176

Query Match 40.2%; Score 35; DB 6; Length 138;  
Best Local Similarity 77.8%; Pred. No. 64;  
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 SGPPSGARR 10  
DB 83 SGSPPGARR 91

RESULT 31  
US-10-467-657-7422  
; Sequence 7422, Application US/10467657  
; Publication No. US20050260581A1  
; GENERAL INFORMATION:  
; APPLICANT: CHIRON SpA  
; APPLICANT: FONTANA Maria Rita  
; APPLICANT: PIZZA Mariagrazia  
; APPLICANT: MASIGNANI Vega  
; APPLICANT: MONACI Elisabetta  
; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS  
; FILE REFERENCE:  
; CURRENT APPLICATION NUMBER: US/10/467,657  
; CURRENT FILING DATE: 2003-08-11  
; PRIOR APPLICATION NUMBER: GB-0103424.8  
; PRIOR FILING DATE: 2001-02-12  
; NUMBER OF SEQ ID NOS: 9218  
; SOFTWARE: SeqWin99, version 1.04  
; SEQ ID NO 7422

; LENGTH: 234  
; TYPE: PRT  
; ORGANISM: Neisseria gonorrhoeae  
US-10-467-657-7422

Query Match 40.2%; Score 35; DB 6; Length 234;  
Best Local Similarity 70.0%; Pred. No. 1e+02;  
Matches 7; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 6 SGARRRNCVE 15  
DB 162 SGNRTNCAE 171

RESULT 32  
US-11-112-882-70  
; Sequence 70, Application US/11112882  
; Publication No. US20050273885A1  
; GENERAL INFORMATION:  
; APPLICANT: Commonwealth Scientific and Industrial Research Organisation  
; TITLE OF INVENTION: Synthesis of Long-Chain Polyunsaturated Fatty Acids in Recombinan  
; FILE REFERENCE: 503244  
; CURRENT APPLICATION NUMBER: US/11/112,882  
; CURRENT FILING DATE: 2005-04-22  
; NUMBER OF SEQ ID NOS: 89  
; SOFTWARE: Patentin version 3.1  
; SEQ ID NO 70  
; LENGTH: 449  
; TYPE: PRT  
; ORGANISM: Arabidopsis thaliana  
US-11-112-882-70

Query Match 40.2%; Score 35; DB 7; Length 449;  
Best Local Similarity 71.4%; Pred. No. 1.8e+02;  
Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 YSGPPSG 7  
DB 338 YTGPPNG 344

RESULT 33  
US-11-024-959-292  
; Sequence 292, Application US/11024959  
; Publication No. US20060010516A1  
; GENERAL INFORMATION:  
; APPLICANT: FORSTER, RICHARD L.  
; APPLICANT: CONNETT, MARIE B.  
; APPLICANT: EMERSON, SARAH JANE  
; APPLICANT: GRIGOR, MURRAY ROBERT  
; APPLICANT: HIGGINS, COLLEEN M.  
; APPLICANT: LUND, STEVEN TROY  
; APPLICANT: MAGUSIN, ANDREAS  
; APPLICANT: KODRZYCKI, BOB  
; TITLE OF INVENTION: CELL CYCLE GENES AND RELATED METHODS  
; FILE REFERENCE: 044463-0360  
; CURRENT APPLICATION NUMBER: US/11/024,959  
; CURRENT FILING DATE: 2004-12-30  
; PRIOR APPLICATION NUMBER: 60/533,036  
; PRIOR FILING DATE: 2003-12-30  
; NUMBER OF SEQ ID NOS: 782  
; SOFTWARE: Patentin version 3.3  
; SEQ ID NO 292  
; LENGTH: 476  
; TYPE: PRT  
; ORGANISM: Eucalyptus sp.  
US-11-024-959-292

Query Match 40.2%; Score 35; DB 7; Length 476;  
Best Local Similarity 50.0%; Pred. No. 1.9e+02;  
Matches 5; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 5 PSGARRRNCY 14



Matches 6; Conservative 2; Mismatches 5; Indels 0; Gaps 0;

QY 2 SGPPSGARRRNCY 14

|||||

Db 97 TGP RKGSRRNAW 109

RESULT 38

US-11-124-368A-252

; Sequence 252, Application US/11124368A

; Publication No. US20050287559A1

; GENERAL INFORMATION:

; APPLICANT: Michele Cargill

; APPLICANT: James J. Devlin

; APPLICANT: May Luke

; TITLE OF INVENTION: Genetic Polymorphisms Associated with

; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof

; FILE REFERENCE: CL001524

; CURRENT APPLICATION NUMBER: US/11/124,368A

; PRIOR FILING DATE: 2005-05-09

; PRIOR FILING DATE: 2004-05-07

; PRIOR APPLICATION NUMBER: US 60/568,845

; PRIOR FILING DATE: 2004-11-09

; NUMBER OF SEQ ID NOS: 21112

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 252

; LENGTH: 538

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-124-368A-252

Query Match

Best Local Similarity 40.2%; Score 35; DB 7; Length 538;

Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 PPSGARRRNC 13

|||||

Db 11 PPSGSEARCC 20

RESULT 39

US-11-124-368A-255

; Sequence 255, Application US/11124368A

; Publication No. US20050287559A1

; GENERAL INFORMATION:

; APPLICANT: Michele Cargill

; APPLICANT: James J. Devlin

; APPLICANT: May Luke

; TITLE OF INVENTION: Genetic Polymorphisms Associated with

; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof

; FILE REFERENCE: CL001524

; CURRENT APPLICATION NUMBER: US/11/124,368A

; PRIOR FILING DATE: 2005-05-09

; PRIOR APPLICATION NUMBER: US 60/568,845

; PRIOR FILING DATE: 2004-05-07

; PRIOR APPLICATION NUMBER: US 60/625,936

; PRIOR FILING DATE: 2004-11-09

; NUMBER OF SEQ ID NOS: 21112

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 255

; LENGTH: 538

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-124-368A-255

Query Match

Best Local Similarity 40.2%; Score 35; DB 7; Length 538;

Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 PPSGARRRNC 13

|||||

Db 11 PPSGSEARCC 20

RESULT 40

US-11-124-368A-256

; Sequence 256, Application US/11124368A

; Publication No. US20050287559A1

; GENERAL INFORMATION:

; APPLICANT: Michele Cargill

; APPLICANT: James J. Devlin

; APPLICANT: May Luke

; TITLE OF INVENTION: Genetic Polymorphisms Associated with

; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof

; FILE REFERENCE: CL001524

; CURRENT APPLICATION NUMBER: US/11/124,368A

; PRIOR FILING DATE: 2005-05-09

; PRIOR APPLICATION NUMBER: US 60/568,845

; PRIOR FILING DATE: 2004-05-07

; PRIOR APPLICATION NUMBER: US 60/625,936

; PRIOR FILING DATE: 2004-11-09

; NUMBER OF SEQ ID NOS: 21112

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 256

; LENGTH: 538

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-124-368A-256

Query Match

Best Local Similarity 40.2%; Score 35; DB 7; Length 538;

Matches 6; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 4 PPSGARRRNC 13

|||||

Db 11 PPSGSEARCC 20

Search completed: February 11, 2006, 08:34:17

Job time : 18 secs